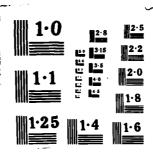
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Validation Summary Report

01/17/86

AtsyCOMP\_884, version 1.8

## EXECUTIVE SUMMARY

This Validation Summary Report presents the results and conclusions of testing performed on the AlsyCOMP\_804, version 1.8. Standardized tests serve as input to an Ada compiler, producing results which are evaluated by the validation team. This summary briefly states the highlights of the AlsyCOMP\_804, version 1.8 validation.

On-site testing was performed 31 October 1985 through 3 November 1985 at Alays premises in La Celle Saint Cloud — France, under the auspices of the BNI (AVF), according to Ada Validation Office policies and procedures. The AlayCOMP\_884, version 1.8 is hested on Apollo DOMAIN DN468 operating under AEGIS Version SR9, it is also hosted on DN328 and DSP88A with the same operating system. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.6, was used. The ACVC is used to validate conformance of a compiler to ANSI/MIL-STD-1815A Ada. The purpose of testing is to ensure that a compiler properly implements legal language constructs and that it identifies and rejects illegal language constructs. The testing also identifies behavior that is implementation dependent but permitted by the Ada Standard. Six classes of tests are used. These tests are designed to perform checks at compile time, at link time, or during execution.

The results of validation are summarized in the following table.

RESULT			TEST	CLASS	;		TOTAL
	_	<b>.B.</b>	╺	٩	Ŧ	1	
Possed	60	777	961	14	8	1	1821
Failed	•	•	•	•	•	•	•
Inapplicable	1	5	267	3	•	2	278
Anonglous	•	•	•	•	•	•	•
Withdrown	•	18	45	•	•	•	63
TOTAL	61	8.00	1273	17	8	3	2162

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01/17/86

Validation Summory Report

Ada 85.2

Add COMPILER VALIDATION SUMMARY REPORT:

ALSYS
AlsyCOMP\_004, version 1.0
Apollo DOMAIN DN460, DN320 and DSP80A

Completion of On-Site Validation: 3 November 1985

Prepared By:
BN1/AVF
Domaine de Voluceau - Rocquencourt
B.P.105 - 78153 LE CHESNAY CEDEX
FRANCE

Prepared For:
Ada Joint Program Office
United States Department of Defense
Washington, D.C.

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Validation Summary Report

01/17/86

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Ada Compiler Validation Summary Report:

Compiler Name: AlsyCOMP\_004, version 1.0

Host' Computers Apollo DOMAIN DN468 Apollo DOMAIN DN320 Apollo DOMAIN DSP80A under AEGIS Version SR9

Torget Computers Apollo DOMAIN DN468 Apollo DOMAIN DN320 Apollo DOMAIN DSP80A under . AEGIS Version SR9

Testing Completed 3 November 1985 Using ACVC 1.6

This report has been reviewed and approved:

Ada Validation Facility

BN1

Nicolas Malagardis represented by Jacqueline Sidi

Domaine de Voluceau - Rocquencourt B.P. 185 - 78153 LE CHESNAY CEDEX

FRANCE

Acting as the Ada Validation Office (AVO)

John F. Kramer, Jr.

Institute for Defense Analyses

Alexandria, VA

Virginia L. Castor Director

Washington, D.C.

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## EXECUTIVE SUMMARY

This Validation Summary Report presents the results and conclusions of testing performed on the AlsyCOMP\_904, version 1.8. Standardized tests merve am input to an Ada compiler, producing results which are evaluated by the validation team. This summary briefly states the highlights of the AlsyCOMP\_004, version 1.0 validation.

On-site testing was performed 31 October 1985 through 3 November 1985 at Alsys premises in La Celle Saint Cloud - France, under the auspices of the BNI (AVF), according to Ada Validation Office policies and procedures. The AlsyCOMP\_004, version 1.0 is hosted on Apollo DOMAIN DN460 operating under AEGIS Version SR9, it is also hosted on DN320 and DSP80A with the same operating system. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.6, was used. The ACVC is used to validate conformance of a compiler to ANSI/MIL-STD-1815A Ada. The purpose of testing is to ensure that a compiler properly implements legal language constructs and that it identifies and rejects illegal language constructs. The testing also identifies behavior that is implementation dependent but permitted by the Ada Standard. Six classes of tests are used. These tests are designed to perform checks at compile time, at link time, or during execution.

The results of volidation are summarized in the following table.

RESULT		TOTAL					
	_	æ	<u>-c</u>	<u> </u>	£	4	
Passed	60	777	961	14	8	1	1821
Failed	0	0	0	0	0	0	0
Inapplicable	1	5	267	3	0	2	278
Anomalous	0	0	0	0	0	0	9
Withdrawn	•	18	45	0	0	0	63
TOTAL	61	800	1273	17	8	3	2162

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Texts found to contain errors were withdrawn from Version 1.6 of the Ada Compiler Validation Capability (ACVC). When validation was completed, the following tests had been withdrawn:

838105B-AB	C45521AY-B (25 tests)	C48005C-B
C48006B-B	C64103C-B	C64103D-B
C64105E-AB	C64105F-AB	B66001A-B
867001A-B	B67004A-B	B74103F-B
B74207A-B	C93005B-B	C93005C-B
C93007B-B	BC3220B-B	CA2009E-B
CA1003B-AB	CA1011A+-B	CA1108A-B
CA1108B-B	CA2009B-B	CA2009F+-B
BC1013A-B	BC3204AD-B (4 tests)	BC3205AD+-B (4 tests)
BC3405B-B	BC3503A-B	CE2107E-B
CE3603A-B	CE3604A-B	CE3704M-B
	C48006B-B C64105E-AB B67001A-B B74207A-B C93007B-B CA1003B-AB CA1108B-B BC1013A-B BC3405B-B	C48006B-B

Some tests demonstrate that language features are not supported by an implementation. For this implementation the tests determined the following.

. SHORT\_FLOAT is not supported:

886001CP-AB.DEP C34001F-B.DEP C35702A-AB.DEP

. LONG\_FLOAT is not supported:

B86001CQ-AB.DEP C34001G-B.DEP C35702B-AB.DEP

. Representation—specifications for noncontiguous enumeration representations are not allowed:

C55B16A-AB.DEP

. No other integer type—other than INTEGER, SMORT\_INTEGER, AND LONG\_INTEGER is supported:

B86001DT-AB.DEP

. The package SYSTEM is used by package TEXT\_IO:

C86001F-B. ADA

. The 'SIZE clause is not supported:

C87B62A-B.DEP

. The 'STORAGE\_SIZE clause is not supported:

C878628-8.DEP

. The 'SMALL clouse is not supported:

C87862C-B.DEP

. Generic package bodies cannot—be compiled in separate compilation files:

CA2009C -- B. DEP

. Pragma INLINE is not supported for procedures:

LA3004A+-AB.ADA

. Pragma INLINE is not supported for functions:

LA3004B+-B.DEP

ACVC Version 1.6 was taken on-site via magnetic tape to Alsys premises in La Celle Saint Cloud - France. The tape was loaded, and all tests, except the withdrawn tests and any executable tests which make use of a floating point precision greater than SYSTEM.MAX\_DIGITS, were compiled on Apollo DOMAIN DN460. Class A, C, D, and E tests were executed on Apollo DOMAIN DN460.

On completion of testing, all results were analyzed for failed Class A, C, D, or E programs, and all Class B and L compilation results were individually analyzed.

The ACVC, Version 1.6, contains 2162 tests of which 1821 were applicable to AlsyCOMP\_804, version 1.0. 24 tests were processed although inapplicable. No anomalies were found in the testing of this compiler. Testing demonstrated that all applicable tests were passed by this compiler. The AVF concluded that the results show acceptable compliance to ANS1/MIL-STD-1815A Ada.

1~ INTRODUCTION	
1.1- Purpose of this Validation Summary Report	1-1
1.2- Use of this Validation Summary Report	1-2
1.3- References	1-2
1.4- Definition of Terms	1-3
1.5- Configuration	1-5
2- TEST RESULTS	
2.1- ACVC Text Classes	2-1
2.1.1- Class A Tests	
2.1.2- Cigss & Tests	
2.1.3- Class C Tests	
2.1.4- Cigas D Tests	-
2.1.5- Closs E Tests	
2.1.6- Class L Tests	
2.1.7- Support Units	-
2.2- Withdrawn Tests	
2.3- Inapplicable Tests	
2.4— Implementation Characteristics	
3- COMPILER ANOMALIES AND NONCONFORMANCES	
3.1- Anomalies	3-1
3.2- Nonconformances	3–1
4- ADDITIONAL TESTING INFORMATION	
4.1- Pre-Validation	4-1
4.2- Test Site	
4.3— Test Tope Information	
4.4- Testing Logistics	
4.5- Testing Duration	
5- SUMMARY AND CONCLUSIONS	
Appendix A - COMPLIANCE STATEMENT	
Appendix B - TEST PARAMETERS	
Appendix C - COMMAND SCRIPTS	
Appendix D - COMPLETE LIST OF TESTS AND RESULTS	

#### CHAPTER 1

## INTRODUCTION

The Validation Summary Report describes how an Ada compiler conforms to the language standard. This report explains all technical terms used within and thoroughly reports the Ada Compiler Validation Capability (ACVC) test results. Ada compilers must be written according to the language specification as given in the ANSI/MIL-STD-1815A Ada. All implementation-defined features must be included for the compiler to conform to the Standard. Following the guidelines of the Standard ensures continuity between compilers. That is, the entire Standard must be implemented, and nothing can be implemented that is not in the Standard.

Even though all validated Ada compilers conform to the Standard, it must be understood that some differences do exist between implementations. ANSI/MIL-STD-1815A permits some implementation dependencies, e.g., the maximum length of identifiers, the maximum values of integer types, etc. These implementation-dependent features limit the portability of programs between compilers. Other differences between compilers are due to limitations imposed on a compiler by the operating system and by the hardware. A of these dependencies are given in the report.

a dation summary reports are written according to a standardized format. Compiler users can, therefore, more easily compare the reports from several compilers when selecting a compiler for a given task. The validation report can be completed mostly from the test results produced during validation testing. Additional testing information is given at the end of the report and states problems and details which are unique for a specific compiler. The format of the validation report limits variance between reports, enhances readability of the report, and accelerates report readiness.

1.1- Purpose of this Volidation Summary Report

The Validation Summary Report documents the results of the testing performed on an Ada compiler. Testing was carried out for the following purposes:

- . To identify any language constructs supported by the translotor that do not conform to the Ada Standard
- . To identify any unsupported language constructs required by the Ada Standard

1. T. A. A. A. A. B. S. S. S.

. To describe the implementation—dependent behavior allowed by the Ada Standard

Testing of this compiler was conducted by BNI according to policies and procedures established by the Ada Validation Office (AVO). Testing was conducted from 31 October 1985 through 3 November 1985 at Aisys premises in La Celle Saint Cloud - France.

1.2- Use of this Validation Summary Report

Consistent with the national laws of the originating country, the Adc Validation Office may make full and free public disclosure of this report. In the United States, this is provided in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of this validation apply only to the computers, operating systems, and compiler versions identified in this report.

The organizations represented on the signature page of this report do not represent or warrant that any statement or statements set forth in this report are accurate or complete, or that the subject compiler has no nonconformances to the Ado Standard other than those presented. This report is not intended for the purpose of publicizing the findings summarized herein.

Questions regarding this report or the validation tests should be directed to:

Ada Validation Office Institute for Defense Analyses 1801 N. Beauregard Alexandria VA 22311

and to:

BNI Domaine de Voluceau - Rocquencourt B.P.105 - 78153 LE CHESNAY CEDEX FRANCE

1.3- References

. Reference Manual for the Ada Programming Language, ANSI/MIL~STD—1815A, Feb 1983.

. Ada Validation Organization Policies and Procedures, T.H. Probert, MITRE Corporation, MTR-82W00103, June 1982.

. Ado Compiler Validation Capability Implementers' Guide, SofTech, Inc., Dec 1984.

1.4- Definition of Terms

ACVC

Test

Anomaly

A test result that, given pre-validation analysis, is not expected during formal validation but is judged allowable under the circumstances.

The Ada Compiler Validation Capability. A set of programs that evaluates the conformance of a compiler to the Ada language specification, ANSI/MIL-STD-1815A.

Ada Standard ANSI/MIL-STD-1815A, February 1983.

Applicant The agency requesting validation.

The BNI. In the context of this report, the AVF is responsible for conducting compiler validations according to established policies and procedures.

AVO The Ada Validation Office. In the context of this report, the AVO is responsible for setting policies and procedures for compiler validations.

Compiler

A processor for the Ada language. In the context of this report, a compiler is any language processor, including cross-compilers, translators, and interpreters.

Failed test

A test for which the compiler generates a result that demonstrates nonconformance to the Ada Standard.

Host The computer on which the compiler resides.

Inapplicable test A test that uses features of the language that a compiler is not required to support or may legitimately support in a way other than the one expected by the test.

Passed test A test for which a compiler generates the expected result.

Target The computer for which a compiler generates code.

A program that evaluates the conformance of a compiler to a language specification. In the context of this report, the term is used to designate a single ACVC test. The text of a program may be the text of one or more compilations.

Validation Summary Report

01/17/86

AlsyCOMP\_004, version 1.0

Withdrawn test

A test that has an invalid test objective, fails to meet its test objective, or contains illegal use of the language.

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AlsyCOMP\_004, version 1.0

01/17/86

Validation Summary Report

1.5- Configuration

The candidate compilation system for this validation was tested under the configuration:  $\hat{\boldsymbol{x}}$ 

Compiler: AlsyCOMP\_004 version 1.0

Test Suite: Ada Compiler Validation Capability, Version 1.6

Host Computer:

Machine(s):

Apollo DOMAIN DN460

Operating System:

AEGIS Version SR9

Memory Size:

4 Megabytes

Disk System:

Shared disks on the Apollo net

Target Computer:

Machine(s):

Apollo DOMAIN DN460

Operating System:

AEGIS Version SR9

Memory Size:

4 Megabytes

Disk System:

Shared disks on the Apolto net

Validation Summary Report

01/17/86

AlsyCOMP\_604, version 1.0

Additional testing was successfully performed by BN1 on two other machines of this family: DN320 and DSP80A, using a subset of the ACVC comprising the first 5 tests of each chapter.

DN320 machine with the following configuration :

Host Computer:

Machine(\*):

Apollo DOMAIN DN320

Operating System:

AEGIS Version SR9

Memory Size:

1.5 Megabytes

Disk System:

Shared disks on the Apollo net

Target Computer:

Machine(s):

Apoilo DOMAIN DN320

Operating System:

AEGIS Version SR9

Memory Size:

1.5 Megabytes

Disk System:

Shared disks on the Apollo net

DSP80A machine with the following configuration :

Host Computer:

Machine(s):

Apollo DOMAIN DSP80A

Operating System:

AEGIS Version SR9

Memory Size:

1 Megabytes

Disk System:

Shared disks on the Apollo net

Target Computer:

Machine(\*):

Apollo DOMAIN DSP80A

Operating System:

AEGIS Version SR9

Memory Size:

1 Megabytes

Disk System:

Shared disks on the Apollo net

CHAPTER 2

TEST RESULTS

2.1- ACVC Test Classes

Conformance to ANSI/MIL-STD-1815A is measured using the Ada Compiler Validation Capability (ACVC). The ACVC contains both legal and illegal Ada programs structured into six test classes: A, B, C, D, E, and L. Legal programs are compiled and executed while illegal programs are just compiled. Support packages are used to report the results of the legal programs. A compiler must correctly process each of the tests in the suite and demonstrate conformance to the Ada Standard by either meeting the pass criteria given for the test or by showing that the test is inapplicable to the implementation. Tests that are found to contain errors are withdrawn from the ACVC. Detailed test results are listed in the Appendix D. The results of validation testing are summarized in the following table:

RESULT			TEST	CLASS	;		TOTAL
	_	髙	æ	-0-	1	1	
Passed	60	<b>7</b> 77	961	14	8	1	1821
Failed	0	0	•	0	0	0	•
Inapplicable	1	5	267	3	•	2	278
Anomatous	0	0	0	0		0	•
Withdrown	0	18	45		0	0	63
TOTAL	61	800	1273	17	8	3	2162

A total of 1845 tests were processed during this validation attempt. The 63 withdrawn tests in Version 1.6 were not processed, nor were 254 Class C tests that were inapplicable because they use floating point types having digits that exceed the maximum value for the implementation. All other tests were processed.

Some conventions are followed in the ACVC to ensure that the tests are reasonably portable without modification. For example, the tests make use of only the basic 55 character set, contain lines with a maximum length of 72 characters, use small numeric values, and place features that may not be supported in separate tests. However, some tests contain values that require the test to be customized according to implementation—specific values. The values used for this validation are listed in Appendix B.

2.1.1- Class A Tests

Class A tests check that legal Ada programs can be successfully compiled and executed. Mowever, no checks are performed during execution to see if the test objective has been met. For example, a Class A test checks that reserved words of another language (other than those already reserved in the Ada language) are not treated as reserved words by an Ada compiler. A Class A test is passed if no errors are detected at compile time and the program executes to produce a message indicating that it has passed. If a Class A test cannot be compiled and executed because of its size, then the test is split into a set of smaller subtests that can be processed. A split was required for 1 test:

AE2101A-B. ADA

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The following table shows that all applicable Class A tests were passed:

RESULT						CH	<b>APTE</b>	R					
	_2	_3	_4	_5 .	_6		_8	_8	_10	-11	_12	_14	TOTAL
Passed	13	6	0	5	2	12	13	2	0	0	0	7	60
Failed	0	0	0	0	0	0	0	0	0	•	0	0	0
Inapplicable	0	0	0	0	0	0	0	1	0	0	0	0	1
Anomalous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrown	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13	6	0	5	2	12	13	3	9	9	9	7	61

2.1.2- Class B Tests

Class B tests check that a compiler detects illegal language usage. Class B tests are not executable. Each test in this class is compiled and the resulting compilation listing is examined manually to verify that every syntax or semantic error in the test is detected. A Class B test is passed if every illegal construct that it contains is detected by the compiler. If one or more errors are not detected, then a version of the test is created that contains only the undetected errors. The resulting "split" is compiled and examined. The splitting process continues until all errors are detected by the compiler. Splits were required for 15 tests:

 B32202A-B. ADA
 B32202B-B. ADA
 B32202C-B. ADA

 B33066A-B. ADA
 B37004A-B. ADA
 B43201D-B. ADA

 B45102A-AB. ADA
 B61012A-B. ADA
 B62001B-AB. ADA

 B62001C-AB. ADA
 B62001D-AB. ADA
 B91004A-B. ADA

 BA2001E9M-AB. ADA
 BA2001E1-AB. ADA
 BA2001E2-AB. ADA

The following table shows that all applicable Class 8 tests were passed:

RESULT	CHAPTER												
	_2	_3		_ <b>_</b> \$	6	7	_8	8	_18	-11	_12	_14	IOTAL
Possed	35	72	83	113	70	55	49	91	36	8	147	18	777
Failed	0	0	0	0	6	0	0	0		0	0	6	0
Inapplicable	9	0	0	0	0	0	3	1	0	0	1	6	5
Anomolous	0	0	0	0	0	0	0	0	0	0	0	•	0
Withdrawn	0	1	0	0	3	2	0	0	0	9	12	0	18
TOTAL	35	73	83	113	73	57	52	92	36	8	160	18	800

## . 2.1.3- Class C Tests

Class C tests check that legal Ada programs can be correctly compiled and executed. Each Class C test is self-checking and produces a PASS/FAIL message indicating the result when it is executed. If a Class C test cannot be compiled because it exceeds the compiler's capacity, then the test is split into smaller subtests until all are compiled and executed. No splits were required.

The following table shows that all applicable Class C tests were passed:

RESULT	CHAPTER												
	2	3	_4	5	6		_8	_9	_10	_11	_12	_14	IQIAL
Pessed	19	89	153	115	70	14	93	106	35	20	55	192	961
Failed	0	e	0	0	0	0	0	0	0	8	0	0	0
Inapplicable	23	119	116	4	9	0	4	0	1	0	0	0	267
Anomalous	0	0	0	0	9	0	0	0	0	0	0	0	0
Withdrawn	0	0	27	0	4	0	0	3	7	0	0	4	45
TOTAL	42	208	296	119	74	14	97	109	43	20	55	196	1273

2.1.4- Class D Tests

AlsyCOMP\_864, version 1.0

Class D tests check the compilation and execution capacities of a compiler. Since there are no requirements placed on a compiler by the Ada Standard for the number of identifiers permitted in a compilation, the Number of units in a library, the number of nested loops in a subprogram body, and so on, a compiler may refuse to compile a Class D test. Each Class D test is self-checking and produces a PASS/FAIL message indicating the result when it is executed. If a Class D test fails to compile because the capacity of the compiler is exceeded, then the test is classified as inapplicable.

The following table shows that all applicable Class D tests were passed:

RESULT	CHAPTER												
	_2	3	_4	. قــ	_ <b>_6</b> .	ـ عـ	_B.	_9 .	. عد	-11	_12	_14	TOTAL
Possed	1	0	4	7	2	0	0	0	0	0	0	6	14
Faited	6	0	•	6	e	0	e	0	0	0	0	0	0
Inapplicable	0	0	0	2	1	0	0	0	0	0	0	0	3
Anomalous	0	0	0	6	0	0	e	0	0	0	0	0	0
Withdrown	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	e	4	9	3	0	0	8	0	8	0	0	17

Capacities measured by the Class D tests are detailed in section 2.4, IMPLEMENTATION CHARACTERISTICS.

## 2.1.5- Class E Tests

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Class E tests provide information about the compiler in those areas in which the Ada Standard permits implementations to differ. Each Class E test is executable and produces messages that indicate how the Ada Standard is interpreted. However, in some cases the Ada Standard permits a compiler to detect a condition either at compile time or at execution time, and thus a Class E test may correctly fail to execute. A Class E test is passed if it fails to compile and appropriate error messages are issued, or if it executes properly and produces a message that it has passed. If a Class E test cannot be compiled and executed because of its size, then the test is split into a set of smaller subtests that can be processed. No splits were required.

The following table shows that all applicable Class E tests were passed:

RESULT	CHAPTER												
	_2 .	_3.	_4 .	5.	. عــ	_2.	_B.	. فـــ	_10 .	. ىد	.12 .	14 I	OTAL
Passed	1	3	2	1	0	0	0	0	0	0	0	1	8
Failed	0	0	0	0	0	0	0	9	0	0	0	0	0
Inapplicable	9	0	0	0	0	0	0	0	0	6	0	0	0
Anomalous	0	0	0	0	0	0	0	0	e	e	0	0	0
Withdrawn	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	3	2	1	e	e	Ð	9	0	0	0	1	8

Information obtained from the Class E tests is detailed in section 2.4, IMPLEMENTATION CHARACTERISTICS.

2.1.6- Class L Tests

Class L tests check that incomplete or illegal Ada programs involving multiple, separately compiled units are detected and not allowed to execute. Class L tests are compiled separately and execution is aftempted. A Class L test passes if it is rejected at link time and the test-gloss not execute.

The following table shows that all applicable Class L tests were passed:

RESULT	CHAPTER												
	_2.	_3.	₾.	. ئــ	6 .	<b></b> Z .	_8.	_ <b>9</b> .	_10 .	11	_12	_14	TOTAL
Passed	0	6	0	6	0	0	0	0	1	ø	0	0	1
Failed	0	0	e	0	0	e	0	e	0	0	e	0	0
Inapplicable	0	0	0	0	•	0	0	0	2	0	ø	0	2
Anoma I ous	0	0	0	0	0	0	0	0	0	0	0	0	0
Withdrawn	0	0	0	9	0	0	0	0	0	0	0	0	0
TOTAL	e	0	0	0	0	0	0	0	3	0	ø	0	3

2.1.7- Support Units

Three packages support the self-checking features of Class C tests: REPORT, CNECK\_FILE, and VAR\_STRINGS. The REPORT package provides the mechanism by which executable tests report results. It also provides a set of identity functions that are used to defeat some compiler optimization strategies to cause computations to be made by the target computer\_instead of the compiler on the host computer. The CHECK\_FILE package is used to check the contents of text files written by some of the Class C tests for Chapter 14 of the Ada Standard. The VAR\_STRINGS package defines types and subprograms for manipulating varying-length character strings. The operation of these three packages is checked by a set of executable tests. These tests produce messages that are examined manually to verify that the packages are operating correctly. If these packages are not operating correctly, then validation is not attempted.

An applicant is permitted to substitute—the body of package REPORT with an equivalent one if for some reason the original version provided by the ACVC cannot be executed on the target computer. Package REPORT was not modified for this validation.

All support package specifications and bodies were compiled and were demonstrated to be operating correctly.

## 2.2- Withdrawn Tests

Some tests are withdrawn from the ACVC because they do not conform to the Ada Standard. When testing was performed, the following 63 tests@had been withdrawn for the reasons indicated:

#### B38105B-AB:

This test requires a specific interpretation of the Ado Standard regarding whether an incomplete type can have discriminant constraints before the full type declaration; this interpretation is not fully supported by the Ado Standard or Language Maintenance Committee (LMC).

#### C45521A..Y-B (25 tests):

Cases C and I define the model interval for the result too marrowly.

#### C48005C-B:

Lines 38 and 63 of this test should check that the value of the designated object is null.

#### C48006B-B:

This test requires a specific interpretation of the Ada Standard regarding whether an incomplete type can have discriminant constraints before the full type declaration; this interpretation is not fully supported by the Ada Standard or Language Maintenance Committee.

#### C64103C-B:

This test should raise CONSTRAINT\_ERROR—during the conversion at line

### C64103D-B:

This test involves a CONSTRAINT\_ERROR vs. NUMERIC\_ERROR issue that is to be resolved by the Language Maintenance Committee.

## C64105E-AB

For case E, ensure that non-null dimensions of formal and actual parameters belong to both index subtypes (see Al-00313).

## C64105F-AB:

For case E, ensure that non-null dimensions of formal and actual parameters belong to both index subtypes (see AI-00313).

## B66001A-B:

This test checks (in section G) that a function without parameters, which is equivalent to an enumeration literal in the same declarative region, is a redeclaration and as such is forbidden. According to the Ada Standard 8.3(17), the explicit declaration of such a function is allowed if an enumeration literal is considered to be an implicitly declared predefined operation. The Ada Standard is not clear on this point. This issue has been referred to the Language Maintenance Committee for resolution. Since the issue cannot be resolved at this time, the test is withdrawn from Version 1.6.

## 867801A-B:

\$

1

Line 414 is missing the "BEGIN NULL; END;" needed to complete the block beginning at line 389 (case H).

#### B67004A-B:

This default name for a formal generic equality function should not be allowed to be "/=" unless an expanded name is used.

#### B74183F-B

This test hinges on whether or not a generic formal type declaration declares a type. This matter will be debated by the Language Maintenance Committee in November.

## B74207A-B:

This test requires a specific interpretation of the Ada Standard regarding whether an incomplete type can have discriminant constraints before the full type declaration; this interpretation is not fully supported by the Ada Standard or Language Maintenance Committee.

## C93005B-B, C93005C-B:

These tests contain a declaration of an integer variable whose initialization is solely for the purpose of raising an exception.

Some compilers will not raise this exception due to their optimization.

## C93007B-B:

This test should check for PROGRAM\_ERROR rather than TASKING\_ERROR (SEE Al-000149).

#### CA1003B-AB:

A compilation that contains an illegal compilation unit may now be rejected as a whole (see AI-00255/05).

#### CA1611A--R

The test objective should be reversed to be consistent with AI-00199.

#### CA1108A-B:

A pragma ELABORATE is needed for OTHER\_PKG at line 25.

## CA11088-B:

A pragma ELABORATE is needed for FIRST-PKG at line 39 and for LATER-PKG at line 49.

## CA2009B-B:

The repetition of the main procedure after the subunit body makes the subunit body obsolete; therefore, an attempt to execute the main procedure will fail.

## CA2009E-B:

The repetition of the main procedure after the subunit body makes the subunit body obsolete; therefore, an attempt to execute the main procedure will fail.

## CA2009F+-B:

The file CA2889F2-B is missing from this test suite.

## BC1013A-B:

The declaration of equality in lines 86-87 is illegal because the parameter type T declared in line 11 is not a limited type (Ado Standard 5.7-4).

Consisting seems and the

BC3204A..D-B (4 tests), BC3205A..D--B (4 tests), BC3405B-B:

Instantiations with types that have default discriminants are now legal (see AI-00037).

### BC3226B-B:

This test assumes that the stationess of instantiated generic parameters follows from the stationess of the actual parameter of the instantiation. This compiler treats oll such instantiated perometers as non-static. The matter is before the LMC for resolution.

#### BC3503A-B:

This test requires a specific interpretation of the Ada Standard regarding whether an incomplete type can have discriminant constraints before the full type declaration; this interpretation is not fully supported by the Ada Standard or Language Maintenance Committee.

## CE2107E-B:

This test has a variable, TEMP\_HAS\_TRUE, that needs to be given an initial value of TRUE.

#### CE3603A-B:

The last case is inconsistent with AI-90050. If string argument is null, no attempt to read is made and  $END\_ERROR$  is not raised.

#### CE3604A-B:

Cases 5,8,9, and 11 are inconsistent with AI-00050. SKIP\_LINE is called only if the end of the output string has not been met.

#### CE3704M-B

A superfluous SKIP\_LINE causes the input and output operations to be out of synchronization.

## 2.3- Inapplicable Tests

Some tests use features of the Ada language that the Ada Standard does not require a compiler to support; thus these tests may be inapplicable to a particular compiler. Others may depend on the result of another test that is either inapplicable or withdrawn. For this validation attempt, 278 tests were inapplicable for the reasons indicated:

## A91002M-B.ADA:

This test is inapplicable because this implementation does not support certain progmas such as CONTROLLED.

## B86001DT-AB.TST:

This test is inapplicables because this implementation has no predefined type other than INTEGER, FLOAT, SHORT\_INTEGER, SHORT\_FLOAT, LONG\_INTEGER, LONG\_FLOAT. The macro name SNAME was set to NO\_SUCH\_TYPE and the declaration of a procedure name NO\_SUCH\_TYPE is then legal.

C24113C...Y-B.DEP
C35785C...Y-B.DEP
C35786C...Y-B.DEP
C35786C...Y-B.DEP
C35788C...Y-B.DEP
C35882C...Y-B.DEP
C45241C...Y-B.DEP
C45421C...Y-B.DEP
C45424C...Y-B.DEP
C45424C...Y-B.DEP

C45621C..Z-B.DEP ((10+23)+24=254 tests):

These tests are inapplicable because this implementation limits digits to 6.

## 886001CP-AB . DEP

C34001F-B.DEP

C35702A-AB.DEP:

These tests are inapplicable because this implementation does not support SHORT\_FLOAT.

## B86001CQ-AB . DEP

C34801G-B. DEP

C357028-AB . DEP :

These tests are inapplicable because this implementation does not support LONG\_FLOAT.

# B91001G-B.ADA

BC1002A-B.ADA

C55B16A-AB DEP

C87862A..C-B.DEP ((1+3)+3 = 6 tests):

These tests are inapplicable because this implementation does not support representation clauses.

# C85001F-B.DEP:

This test is inapplicable because this implementation rejects the recompilation of SYSTEM at compilation—time.

# CA2009C-B.DEP:

This test is inapplicable because this implementation does not support instantiating missing generic bodies.

# D55A03G~AB.ADA

# D55A03H-AB.ADA :

These tests are inapplicable because the capacities of the compiler on this machine were exceeded.

## D64005G+-B.ADA:

The last test of this family (D64005GQ-B.ADA) exceeds the capacity of this implementation, preventing the binding and execution of this family.

# LA3004A+-AB.DEP

# LA3004B .- B. DEP:

These tests are inapplicable because this implementation does not support pragma INLINE. These tests ignore the pragma and are processed correctly.

C52183X-B.ADA C52104X-B.ADA C52184Y-B.ADA:

There tests are inapplicable because this implementation does not support pragma PACK. These tests ignore the pragma and are processed correctly

2-13

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## 2.4~ Implementation Characteristics

One of the purposes of validation is to determine the behavior of a compiler in those areas of the Ada Standard that permit implementations to differ. Class D and E tests specifically check for such implementation differences. However, inapplicable tests in other classes also characterize an implementation. This compiler is characterized by the following interpretations of the Ada Standard:

. Non-graphic characters.

Non-graphic characters are defined in the ASCII character set but are not permitted in Ada programs, even within character strings. The compiler correctly recognizes these characters as illegal in Ada compilations. The characters are not printed in the output listing.

. Capacities.

The compiler correctly processes compilations containing loop statements nested to 65 levels, block statements nested to 65 levels, procedures nested to 10 levels, and 723 variables.

. Universal integer calculations.

An implementation is allowed to reject universal integer calculations having values that exceed SYSTEM.MAX\_INT. This implementation does not reject such calculations and processes them correctly.

. Universal real calculations.

An implementation is allowed to reject universal real calculations having values that exceed certain precisions. This implementation does not reject such calculations and processes them correctly.

No rounding  $% \left( 1\right) =\left( 1\right) +\left( 1\right)$ 

. Predefined types.

This implementation supports the predefined types SHORT\_INTEGER, LONG\_INTEGER, INTEGER, FLOAT, DURATION. It does not support any other predefined numeric types.

## . Based literals.

An implementation is allowed to reject a based literal with value exceeding SYSTEM.MAX\_INT during compilation or it may raise NUMERIC\_ERROR during execution. This compiler raises NUMERIC\_ERROR during execution.

#### . Array types.

An implementation is allowed to raise NUMERIC\_ERROR for an array having a 'LENGTH' that exceeds STANDARD.INTEGER'LAST and/or SYSTEM.MAX\_INT. When an array type is declared with an index range exceeding INTEGER values and with a component that is a null BOOLEAN array, this compiler does not raise any exception.

When an array type is declared with an index range exceeding SYSTEM.MAX\_INT values and with a component that is a null BOOLEAN array, this compiler raises NUMERIC\_ERROR.

A packed BOOLEAN array of length INTEGER\*LAST+3 does not raise any exception. A packed two-dimensional BOOLEAN array with INTEGER\*LAST+3 components does not raise any exception.

A null array with one dimension of length exceeding INTEGER\*LAST does not raise any exception.

In assigning one-dimensional array types, the entire expression is evaluated before CONSTRAINT\_ERROR is raised when checking whether the expression's subtype is compatible with the target's subtype. In assigning two-dimensional array types, the entire expression is not evaluated before CONSTRAINT\_ERROR is raised when checking whether the expression's subtype is compatible with the target's subtype. In assigning record types with discriminants, the entire expression is evaluated before CONSTRAINT\_ERROR is raised when checking whether the expression's subtype is compatible with the target's subtype.

## . Discriminated types.

An incompletely declared type—with discriminants may be used in an access type definition—and constrained either there or in later subtype indications.

## . Aggregates.

ě

When evaluating the choices of a multi-dimensional aggregate all choices are evaluated before checking against the index

When evaluating an aggregate containing subaggregates, all choices are not evaluated before being checked for identical bounds.

. Functions.

The declaration of a parameterless function with the same profile as an enumeration literal in the same immediate scope is rejected by the implementation.

, Representation clauses.

\*SMALL length clauses are not supported.

Enumeration representation clauses are not supported.

. Tosks

A task object's storage size is not allowed to change after the task is activated.

Generics

When given a separately compiled generic declaration, some illegal instantiations, and a body, the compiler rejects the body because of the instantiations.

. Package CALENDAR.

 $\label{topological} \mbox{TIME\_OF and} \quad \mbox{SPLIT are inverses} \quad \mbox{when SECONDS is} \quad \mbox{a non-model number}.$ 

. Proomas.

Pragma INLINE is not supported for procedures. It is not supported for functions.

. Input/output.

Package SEQUENTIAL\_10 can be instantiated with unconstrained array types and record types with discriminants. Package DIRECT\_10 can be instantiated with unconstrained array types and record types with discriminants without defaults.

For SEQUENTIAL\_IO, DIRECT\_IO and TEXT\_IO more than one internal file can be associated with each external file for both reading and writing. An external file associated with more than one internal file can be deleted.

An existing text file can be opened in OUT\_FILE mode, can be created in OUT\_FILE mode, and can be created in IN\_FILE mode.

Dynamic creation and resetting of a sequential file is allowed.

Temporary sequential files are given a name. Temporary direct files are given a name. Temporary files given names are deleted when they are closed.

AlsyCOMP\_884, version 1.8

81/17/86

Validation Summary Report

# CHAPTER 3

## COMPILER ANOMALIES AND NONCONFORMANCES

3.1- Anomaties

An anomaly is a test result that, given the pre-validation analysis, was not expected during formal validation but which is judged allowable by the AVF and the AVD under the circumstances of the validation. No anomalies were detected in this validation attempt.

3 2- Nonconformances

Any discrepency between expected test results and actual test results is considered to be a nonconformance. No nonconformances were detected in this validation attempt

# CHAPTER 4

## ADDITIONAL TESTING INFORMATION

4 1- Pre-Validation

Prior to validation, a set of test results for ACVC 1.6 produced by AlsyCOMP\_864, version 1.6 was submitted to BNI by the applicant for pre-validation review. Analysis of these results demonstrated that the compiler successfully passed all applicable tests, except for 2 disputed tests of which 1 was withdrawn from ACVC 1.6. Alsys subsequently claimed to be able to successfully process the disputed test that was not withdrawn

4.2- Test Site

Tests were compiled and executed at  $% \left( 1\right) =1$  . Alsys premises in La Celle Saint Cloud  $\sim$  France.

4.3- Test Tape Information

A test tape containing ACVC Version 1.6 was taken on-site by the validation team. This tape contained all tests applicable to this validation as well as all tests inapplicable to this validation except for any Class C tests that require floating-point precision exceeding the maximum value supported by the implementation. Tests that were withdrawn from ACVC 1.6 were not written to the tape. Tests that make use of values that are specific to an implementation were customized before being written to the tape. Any split tests were also included on the test tape so that no editing of the test files was necessary when the validation team arrived on-site.

The test files were mounted on a VAX. They were transcered from the VAX by an ETHERNET local area network to the Apollo machine. Only one directory was used. The format of there test tope was the same as the ACVC distribution tapes.

4.4- Testing Logistics

Once all tests had been loaded to disk, processing was begun using command scripts provided by ALSYS. The text of these scripts are given in Appendix C.

The compiler supports various options that control its operation. The compiler was tested with the following option settings.

For details about the options see appendix C.

The following options were used :

error\_limit=999 : extension of the implicit number of errors

before abortion

line=120 : line length

short : no compilation listing

long : compilation listing

banner : banner for each test

nosummary : no recapitulation of errors

The B tests were compiled with the option OPTSB (error\_limit=999 line=120 long bonner nosummary).

The other tests—that do not execute were compiled—with the option OPTSDEV (error\_limit=999 line=120 long banner nosummary).

The tests that do execute were compiled with the option OPTS (error\_limit=999 line=120 short banner nosummary).

The tests were run in the following order : A, B, C, D, E and L.

One Ada library was used per ACVC chapter.

All tests were processed one at a time in a single queue.

The results were stored in Unix files, one per test.

# 4.5- Testing Duration

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The ACVC has not been designed for use in measuring compiler performance. The information reported here thus merely described the duration of the on-site testing for conformity, and is not necessarily an indication of the subject system's performance.

AlsyCOMP\_864, version 1.8

01/17/86

Validation Summary Report

The validation for DN460 started on Thursday 31 October at 15:32. It finished on Sunday 3 November at 8:29. The times for the validation were:

CPU (User and System on AEGIS) : 39:51

Elapsed

: 64:56

No timing information was collected for the sample validations of Apollo DOMAIN DN320 and DSP80A

4-3

## CHAPTER 5

## SUMMARY AND CONCLUSIONS

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The BNI identified 1845 of the 2162 tests in ACVC Version 1.6 to be processed during the validation of AlsyCOMP\_884, version 1.6. Excluded were 254 tests requiring too great a floating~point precision, and the 63 withdrawn tests. 24 tests were determined to be inapplicable after they were processed. The remaining 1821 processed tests were passed by the compiler.

The BNI cancludes that these results demonstrate acceptable conformance to the Ado Standard.

APPENDIX A

COMPLIANCE STATEMENT

The only allowed implementation dependencies correspond to implementation—dependent progmas and attributes, to certain machine—dependent conventions as mentioned in Chapter 13 of MIL—STD—1815A, and to certain allowed restrictions on representation classes. The implementation—dependent characteristics of the AlsyCOMP\_804, version 1.0 are described in the following sections which discuss topics one through eight as stated in Appendix F of the Ada Standard.

(1) Implementation-Dependent Progmos

None.

(2) Implementation—Dependent Attributes

None.

**A\_1** 

4

```
The specification for package SYSTEM is
```

## package SYSTEM is

```
type ADDRESS is private;
type NAME is ( UNIX );
```

SYSTEM\_NAME : constant NAME := UNIX, STORAGE\_UNIT : constant := 8; MEMORY\_SIZE : constant := 2.24 - 1;

### - System-Dependent Named Numbers:

MIN\_INT : constant := -(2\*\*31); MAX\_INT : constant := 20031-1; MAX\_DIGITS : constant := 6; MAX\_MANTISSA : constant := 31; FINE\_DELTA : constant := 2#1.0#e-31;

TICK : constant := 1.0;

- Other System-Dependent Declarations

subtype PRIORITY is INTEGER range 1..127;

end SYSTEM;

## (4) Representation Clause Restrictions

Representation clauses specify how the types of the language are to be mapped onto the underlying machine. The following are restrictions on representation clauses.

Address Clause

Not accepted

Length Clause

Not occepted

**Enumeration Representation Clause** 

Not accepted

Record Representation Clause

Not accepted

(5) Conventions

No implementation-generated names.

(6) Address Clauses

Not accepted.

•

(7) Unchecked Conversions

The following are restrictions on unchecked conversions, including those depending on the respective sizes of objects of the source and target.

They should have the same size.

#### (8) Input-Output Packages

The following are implementation—dependent characteristics of the input—output packages.

SEQUENTIAL\_10 Pockage

Declare file type and applicable operations for files of this type.

There is no restriction in the use of sequential Input/Output.

DIRECT\_ID Package

type COUNT is range 0 .. 2\_147\_483\_647;

TEXT\_IO Pockage

type COUNT is range 0 .. 2\_147\_483\_647; subtype FIELD is INTEGER range 0 .. 255;

(9) Package STANDARD

```
type INTEGER is ronge -32768 .. 32767;
type SHORT_INTEGER is ronge -128 .. 127;
type LONG_INTEGER is -2_147_483_648.. 2_147_483_647;
type FLOAT is digits 6 ronge
-2#1.111_1111_1111_1111_1111_111#E+127
```

.. 2#1.111\_1111\_1111\_1111\_1111#E+127;

No other additional predefined floating point types

type DURATION is delta 8.802 range -86\_400.0 .. 86\_400.0;

No ather predefined types

Validation Summary Report

01/17/86

AlsyCOMP\_884, version 1.8

(10) File Names

File names make no use of conventions except these of the operating system.

A-4

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APPENDIX B

TEST PARAMETERS

Certain tests in the ACVC make use of implementation—dependent values, such as the maximum length of an input line and invalid file names. A test that makes use of such values is identified by the extension .TST in its file name.

values to be substituted are identified by names that begin with a dollar sign. A value is substituted for each of these names before the test is run. The values used for this validation are given below.

Name and Meaning	Yolue
\$MAX_IN_LEN Maximum input line length permitted by the implementation.	255
\$BIG_ID1 Identifier of size MAX_IN_LEN with varying last character.	X2345678901234567890123456789012345 67890123456789012345644444444444444444444444444444444444
\$B1G_ID2  Identifier of eize MAX_IN_LEN with varying last character.	X2345678901234567890123456789012345 6789012345678901234544444444444444444444444444444444444

Name and Meaning

<u> Vatue</u>

#### \$B1G\_1D3

with varying middle character.

Identifier of size MAX\_IN\_LEN X2345678901234567890123456789012345 67890123456789012345AAAAAAAAAAAAA \* **\*** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ACAAAAAAAAAAAAAAAAAAAAAAAAAAA \* \*\*\*\*\*\*\*\*\*

#### \$BIG\_ID4

with varying middle character.

Identifier of size MAX\_IN\_LEN X2345678901234567890123456789012345 67890123456789012345AAAAAAAAAAAAA \* \*\*\*\*\*\*\*\*\*\* \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*

#### \$NEG\_BASED\_INT

A based integer literal whose highest order non-zero bit in the sign bit position of the representation for SYSTEM.MAX\_INT.

16#FF\_FF\_FF\_FD#

#### \$BIG\_INT\_LIT

long.

**0000000000000000000000000000000000**000 0000000298

### \$BIG\_REAL\_LIT

MAX\_IN\_LEN characters long.

has enough leading zeroes to be | | | 000069.0E1

### \$EXTENDED\_ASCII\_CHARS

A string literal containing all & "1"};" the ASCII characters with printable graphics that are not in the basic 55 Ada character set.

"abcdefghijkimnopqrstuvwxyz!\$%?@[\]"

Name and Meaning	Yolue
\$NON_ASCII_CHAR_TYPE An enumerated type definition for a character type whome literals are the identifier NON_NULL and all non-ASCII characters with printable graphics.	(NON_NULL)
\$BLANKS Blanks of length MAX_IN_LEN - 20	

\$MAX\_DIGITS

Moximum digits supported for floating point types.

\$NAME
A name of a predefined numeric type other than FLOAT, INTEGER, SHORT\_FLOAT, SHORT\_INTEGER, LONG\_FLOAT, LONG\_INTEGER, or DURATION.

\$INTEGER\_FIRST -32768
The universal integer literal expression whose value is INTEGER'FIRST.

\$INTEGER\_LAST
The universal integer literal expression whose value is INTEGER\*LAST.

SGREATER\_THAN\_DURATION

A universal real value that lies
between DURATION'BASE'LAST and
DURATION'LAST or any value in
the range of DURATION.

32767

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<u> Yolue</u> Name and Meaning -1**00\_000\_0**00.0 \$LESS\_THAN\_DURATION\_BASE\_FIRST The universal real value that is less than DURATION'BASE'FIRST. \$GREATER\_THAN\_DURATION\_BASE\_LAST 100\_000\_000.0 The universal real value that is greater than DURATION'BASE'LAST. 2\_147\_483\_647 \$COUNT\_LAST Volue of COUNT'LAST in TEXT\_10 package. 255 SFIELD\_LAST Value of FIELD LAST in TEXT\_10 package. \$FILE\_NAME\_WITH\_BAD\_CHARS An illegal external file name that either contains invalid characters or is too long. 123456789012345678901234567890123 \$FILE\_NAME\_WITH\_WILD\_CARD\_CHAR An external file name that either contains a wild card character or is too long. BAD\_CHARACTER++ \$ILLEGAL\_EXTERNAL\_FILE\_NAME1 Illegal external file name. MUCH\_TOO~LONG-NAME-FOR-A-FILE-1234567890 \$1LLEGAL\_EXTERNAL\_FILE\_NAME2 lilegal external file name.

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AtsyCOMP\_884, version 1.0 81/17/86 Velidation Summary Report

APPENDIX C

COMMAND SCRIPTS

```
date

aros "start of chapter A1 A2"

aros "start of chapter A1 A2" > /vlo_validation/lod/A1A2.time

date >> /vl6_validation/log/A1A2.time

pst mpa >> /vl4_validation/log/A1A2.time

aros " log file = /vlo_validation/log/A1A2.time

aros " log file = /vlo_validation/log/A1A2.time

aros "and of chapter A1 A2" >> /vl6_validation/log/A1A2.time

date >> /vl6_validation/log/A1A2.time

pst mpa >> /vl6_validation/log/A1A2.time

aros fend of chapter A1A2"

date A
```

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```
# ha/9-August-1985
# command file to run an acvc chapter
# include the set up of shell variables
# Syntax :
      run_chapter chap
#
# Modifications :
# Icc 4-sept-1965 change for abolio
eon
actsev -m
CHAP :="A1"
EXT :=" 42"
ar:s " "
aros " "
aros " "
ares " "
aros " "
aros " "
aros " "
aras " "
arns " "
aros "START of chapter ACHAP AEXT"
date
# put the ada tools and the govo command on the search list
osr =a /adapsk/com
csr =a /vlh_va!idation/com
W := '/vls_valication'
OPTS := ' -error_limit=099 -line=120 -short -nobanner -nosummary'
PPTSOEM := ' -error_limit=909 -line=120 -long -banner -nosummary'
OPTSB := ' -error_timit=999 -line=120 -long -banner -nosummary'
BINDCPT :=!
# check chapter:
SD := (("//chronos/oni_vlo/"+ Achab))
if existf(Asd ) then
 arys "That's not an acvc chapter : Achap"
 return -e
endif
#define chapter environment:
      := (("/v16_v3))dation/" + xCMAP + "work"))
:= ((AVD + "/dia"))
:= ((AWD + "/work"))
MD
CO
Wa
LD
      := ((AND + "/lis"))
```

```
40:69kLI2 := ((wwb + "/adalib"))
exhort ADA53REFD := (("/vio_validation/" + ACHAP + "results"))
DIAREF := ((ASD + "nia"))
# create the directories if they do not exist
CHECK TO R AND CHECK TO R ALD CHECK TO R ALD CHECK TO R ALD CHECK TO R AND
# set up they add library
# this is different for common
if (( ACHAP = 'common' )) then
    if existf(AadaoFklib) then; alt AadaoBklib; endif
   create AADA66KLID
e | 5E
   if exist(\abaonklib) then; alt \abao3klib; endit
   copy /vlo_vslidation/commonwork/acalid wACwAckLIB -override
# run the cosuter file
FILE := (("/v16_validation/com/ACm38" + AEYT))
WO ANN
wd /vl6_validution/com
# If not common defets the ada (ibrary if (( ACHAP = toolmon! )) then
e i se
   if existf(~auao9klih) then; ult ~agao3klib; endif
if existf(AWW) then; all AWA: endif
ards "end of chapter ACHAP"
da* e
```

C - 4 .

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```
# ha/9-August-1985
# fsh to compile one acvo test.
* Parameters : 51 is the test name, without extension
           32 Is the extension
# Logical names:
            Su : directory where is the test file
=
            LD : issting directory
            Du : diagnostic directory
DPTS : combilation options
            COMPILE : executable name
# Syntax :
            compile_one 52200ia aua
* 9855951398139139135135135313531353135353535314334133333398598595555555555555555
# Modifications :
# 4-9-25 ICC change for apollu
SOURCE := ((Asd + "/A1.A2"))
LIST := ((Aid + "/Ai-lis"))
DIAG := ((Aid + "/Ai-cia"))
ARGS "----
ARAS "+++Compiling & deviant ASQUECE" sn ade ASQUECE +lis=ALIST AGFTS8 #1f (5? == 0) then
  echo "+++End compilation of " $50/$1.$2 " SUCCESS ??????."
#elif (S? == o! then
  echo "+++Eng compilation of " $5D/$1.52 " FATAL."
#elif (5? == 2) then
# echo "+++End compilation of " 43D/41.82 " FRRURS. "
selse
=
  echo "+++End compilation of " $30/$1.$2 " the status is " $?
#11
```

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```
# ha/9-August-1985
# Csh to compile one abvoitest.
* Parameters : Si is the test name, without extension
          $2 is the extension
# Logical hames:
           50 : directory where is the test file
           Lu : listing directory
Tu : diagnostic directory
#
           TPTS : compilation options
   •
           CUMPILE : executable name
# Syntax :
           compile_one b2200ia aux
# Modifications :
# 4-0-35 Ind change for applitu
SCHRCE := ([Asd + "/Al.A2"))
LIST := ([A)d + "/Al.His"))
DIAG := ([Add + "/Al.His"))
ARCS "-----
ARGS "+++Compiling deviant ASPURCE"
sh ada ASSURCE misseautat Aa ACPFFUSV
#if (57 == 0) then
  echo "+++End compilation of " $SD/$1.$2 " SUCCESS ??????."
*
#elif (5? == 6) then
  echo "+++2nd compilation of " $50/$1,52 " FATAL."
#elif ($? == 2) tnen
# echo "+++End compilation of " $50/$1.82 " ERRUPS. "
#else
  echo "+++End compilation of " $$E/$1,$2 " the status is " <?
```

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```
# ha/9-August-1935
# fsh to compile one acvc test.
# Parameters : $1 is the test name, without extension
          32 is the extension
          A2 is used to swith on -noinc option for 2 tests
# Logical names:
           Su : directory where is the test file
ž
           LD : listing directory
±
           Db : diagnostic directory
#
           TPTS : compilation options
Compile: executable name
# Tyntax :
           compile_one b22001a aua
# Modifications :
# 4-9-95 ICC change for aboilu
SQUERCE := ((Apr + "/Al.A2"))
LIST := ((Apr + "/Al.A2"))
DITO := ((Apr + "/Al.A16"))
ARGS "-----
ARRS "+++Complling ASCURUE"
shield ASCURCE = 115#ALIST AS AURTS
#i* (5? == 0) then
  echo "+++±nd compilation of " $50/$1.$2 " SUCCESS."
#elif (3? == o) then
#
  scho "+++and compilation of " $$D/$1.$2 " FATAL."
melif (S? == 4) then
# echo "+++end compilation of " $50/$1.$2 " FRRURS. "
delse
  echo "**** End compilation of " $5D/$1.$2 " the status is " $2
```

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# ha/4-4ugust-1995
# Osh to bind and execute one acvo test.
* Parameters : 31 is the test name
          32 is the object output name
# Logical names:
          SINDUPT : pinder options
   .
# Syn∳ax :
# Modifications :
# 4-0-85 ICU changes for apollo
arss "-----
ares "+++Pinding Al"
08 ) := (( AWD + "/Al.u" ))
DBJZ := (( AWD + "/AI" ))
DUTPUT := (( AUD + "/AI" ))
Sh binder Al HousehuseASSU ABINDSPT >ACUTPUT >?AGUTPUT
#setenv ST Asiatus
#if (3$T == 0) then
# *cho "+++=no binding of " $1 " SUCCESS."
#alse
# echo "****end binding of " $1 " the status is " $57
if existf(Aob_1 then
else
  args "+++Binding of Al faileu, there is no ?. No lo done. "
  return
endif
# now link that test
link wobj wobu?
* execute it :
RES := ((Aid + "/Al.res"))
Aphj2 Dares D?ares
dif Aobj
dif Aobj2
```

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```
# ha/9-August-1935
# fish to blind and execute one acvo test.
# Parameters : $1 is the test name
         $2 is the object output name
# Logical names:
         SINCLET : Singer options
#
# Syn≰ax ÷
# Modifications :
# 4-9-85 ICC changed for abolio
arrs "-----
arms "+++Binging Al"
DBJ := (( AAD + "/Al.o" ))
DBJ2 := (( AHD + "/Al" ))
sh binder Al Houtput=AUBU ABINUDPT
#seteny ST Sstatus
#1" ($57 == 0) then
# echo "+++ind pinding of " #1 " SUCCESS."
ae Ise
# echc "+++End pinting of " $1 " the status is " aST
## D/7 3 5
if existf(Aob_1 then
else
 args "+++Binding of Al failed, there is no D. No to done. "
 return
endif
* now link that test
Tirk Appj Appj?
# execute it :
RES := ((A!d + "/Al.res"))
Sh Addj2 Dares D?ares
alf wobj
dif Aobj2
```

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```
# ha/9-August-1925
# fish to bind and execute one acvo test.
# Parameters : 31 is the test name
         32 is the object output name
# Logical names:
         EI,PLPT : dinder options
# Syntax :
hind_one xxx xxx+0
# Modifications :
# 4-9-85 ICO changed for apullo
arms "+++Pinding wi"
QBJ := (( AAD + "/AL.0" ))
QBJZ := (( AUD + "/AI" ))
sh binder Al Houtbut=ACEU
                 ASINDUPT
#setenv ST %status
#if ($ST == 0) then
# echo "+++End binding of " $1 " $UUCESS."
ae I se
# echs "***End binding of " $1 " the status is " $ST
≉encif
if existf(Aob, then
else
  arys "+++@inding of wi failed, there is no n. No la done. "
 return
end if
# now link that test
link Abbj Abbj2
# execute it :
RES := ((Aid + "/Ai.res"))
sn App 12 Dares > ?ares
dif wohi
dif Achj2
```

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C - 10

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#### APPENDIX D

#### COMPLETE LIST OF TESTS AND RESULTS

This Appendix presents a complete list of the ACVC test files used in the validation attempt, presented in order by ACVC Implementers' Guide section and objective. Each test name indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test.

Each test has a name that identifies the section of the Ada Standard addressed by the test objective. The name of a test is interpreted according to the table below, where the first column indicates the character position in the name and the second column, the meaning of that position:

# POS MEANING

- 1 Test class: A, B, C, D, E, L.
- 2 Implementers' Guide chapter number (in hexadecimal).
- 3 Implementers' Guide section number within a chapter (in Hexadecimal)
- 4 Implementers' Guide subsection number (in hexadecimal)
- 5-6 Implementers' Guide Test Objective number (in decimal)
  - 7 Test sequence letter

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- 8 [Optional] Compilation sequence digit or letter
- 9 [Optional] Main program designator in the case of a test having multiple compilation units.

Characters 8 and 9 are only present for tests that consist of several separately compiled units. A series of separately compiled units is counted as one test for reporting purposes. The eighth character indicates

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the order in which the units are to be compiled, with unit 8 being compiled first. The ninth character is only present for a file containing a main program for a test comprising multiple files and is always M.

The suffix -AB means the test was written prior to release of the ANSI Standard and is also valid for the version of Ada published in July 1980. The suffix -B means the test was written specifically for the ANSI Standard. Tests without a suffix have not yet had their names revised to -AB

A file name ending with the extension .TST indicates that the test depends on one or more of the implementation—dependent parameters listed in Appendix B. A file name ending with .DEP indicates that the test is not necessarily applicable to all implementations because it depends upon the support of language features that a compiler may legally not implement.

The result for each file in ACVC Version 1.6 is given in the following pages, where:

- P indicates Passed.
- F indicates Failed.
- N/A indicates Not Applicable to this implementation.
- W indicates Withdrawn due to test errors.
- C indicates Compiled without error.
- A indicates Anomalous.

A test may comprise several separate compilation units contained in two or more files; the names of such files are indented under the name of the test. The letter 'M' indicates which of these files contains the main procedure.

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AlsyCOMP\_804, version 1.0

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Validation Summary Report

## Support Units

CHECK\_FILE-B.ADA REPORT\_SPEC-AB.ADA P REPORT\_BODY-B.ADA VAR\_STRINGS\_BODY.ADA P CZ1101A~AB.ADA CZ1102A~AB.ADA CZ1103A~B.ADA CZ1201A-AB.ADA

CZ1201B-AB.ADA CZ1201C-AB.ADA CZ1201D-AB.ADA

D-3

				•	
A21001A.ADA	P	B23002A . ADA	P	C24113C-B.DEP *	N/A
A22082A . ADA	P	B23003D-AB TST	P	C24113D-B.DEP *	N/A
A26004A.TST	P	823003E-AB.TST	P	C24113E-B.DEP	N/A
A29002A-B.ADA	P	823003F-AB.TST	P	C24113F-B.DEP	N/A
A29002A-B.ADA	P	B23004A . ADA	P	C24113G-B.DEP	N/A
A290020-B.ADA	P	B23004B . ADA	P	C24113H-B.DEP	N/A
A29002C-B.ADA	P	B24001A . ADA	P	C241131-B.DEP	N/A
A29002E-B.ADA	P	B24001B . ADA	P	C24113J-8.DEP	N/A
A29802F-B.ADA	P	824001C.ADA	P	C24113K-B.DEP	N/A
A29002F-B.ADA	P	B24005A . ADA	P	C24113L-B.DEP	N/A
	P	B24865B . ADA	P	C24113M-B.DEP	N/A
A29002H-B.ADA A29002I-B.ADA	P	B24184A ADA	P	C24113N-B.DEP	N/A
	P	B24184B.ADA	P	C241130-B.DEP	N/A
A29002J-B.ADA	P	B24184C.ADA	P	C24113P-B.DEP	N/A
B22001A-AB.TST	P	B25002A . ADA	P	C24113Q-B.DEP	N/A
822001B-AB.TST	P	B26005A . ADA	P	C24113R-E.DEP	N/A
B22001C-AB.TST	P	829001A-B.ADA	P	C24113S-B. DEP	N/A
B22001D-AB.TST	P	C23001A . ADA	ė	C24113T-B.DEP	N/A
822001E-AB.TST		C23003A . TST	P	C24113U-B.DEP	N/A
B22001F-AB.TST	P	C24602A . ADA	ė	C24113V-B.DEP	N/A
B22001G-AB.TST		C24662B . ADA		C24113W-B.DEP	N/A
B22001H-AB . ADA	P	C24602C . ADA	P	C24113X-B.DEP	N/A
822001 I-AB. TST	P	C24662C.ADA	P	C24113Y-B.DEP	N/A
822001J-AB.TST	P	<b>42</b> 1000 111 121	<b>P</b>	C26002B . ADA	P
822001K-AB.TST	P	C24003B.757	, P	C26006A-AB . ADA	P
822001L-AB.TST	P	C24003C.TST	Þ	C26008A-AB . ADA	P
822601M-AB.TST	₽	C24102A . ADA	P	C27001A-AB . ADA	P
B22001N-AB.TST	P	C241828 . ADA	•	C27882A-B.ADA	P
B22003A . ADA	P	C24102C.ADA	P	D29002K-B.ADA	P
822004A.ADA	P	C24183A . ADA	P		P
B22004B . ADA	P	C24113A-B. DEP	P	E24101A-B.TST	r
B22004C . ADA	P	C241138-B.DEP	₽		

# Chapter 3

				•	
A322038-B. ADA	P	837202A.ADA	P	C35564A-AB . ADA *	P
A32283C-B. ADA	P	9372928.ADA	P	C35504B-B.ADA *	P
A322030-B . ADA	P	837283A.ADA	P	C35505A . ADA	P
A340088-B . ADA	P	B37204A-AB . ADA	P	C35505B . ADA	P
A38106D-B. ADA	P	B37205A-AB . ADA	P	C35568A-AB . ADA	P
A38106E-B. ADA	P	B37301A.ADA	P	C35508B-B ADA	P
B32103A-AB . ADA	P	B37381B.ADA	P	C35702A-AB . DEP	N/A
832106A-B . ADA	P	B37302A-AB . ADA	P	C35702B-AB . DEP	N/A
832281A-B. ADA	₽	837383A.ADA	P	C35703A.ADA	P
B32202A-B . ADA	P	B37307B-AB . ADA	P	C35704A-AB . ADA	P
B32262B-B . ADA	Ρ	B37309B-AB . ADA	P	C35704B-AB . ADA	P
B32202C-B.ADA	P	8373168-B. ADA	P	C35784C-AB . ADA	P
B33001A.ADA	P	837311A-AB.ADA	P	C35764D-AB . ADA	P
B33002A.ADA	P	B38001A . ADA	P	C35705A-B.DEP	P
833003A.ADA	P	B38003A-AB . ADA	P	C35765B-8.DEP	P
8336638-AB . ADA	P	838008A-8.ADA	P	C35705C-B.DEP	N/A
B33003C-AB . ADA	P	B38008B-AB . ADA	P	C35705D-8.DEP	N/A
B33004A . ADA	P	838161A-B.ADA	P	C35705E-8.DEP	N/A
B33006A-B . ADA	P	9381018-AB . ADA	P	C35705F-B.DEP	N/A
B340015-AB . ADA	P	B38103A-B.ADA	P	C35705G-B.DEP	N/A
B34008A-B. ADA	P	8381938-B.ADA	P	C35705H-8.DEP	N/A
935101A.ADA	P	B38103C-B.ADA	P	C357051-8.DEP	N/A
835381A.ADA	P	B38103C0	С	C35705J-8.DEP	N/A
B35501A . ADA	P	B38103C1	Ċ	C35705K-8.DEP	N/A
B35506A . ADA	P	B38103C2	Ċ	C35705L-B.DEP	N/A
B35506B . ADA	P	B38193C3M	c	C35705M-B.DEP	N/A
B35701A.TST	P	B38105A-AB . ADA	P	C35705N-B.DEP	N/A
B35709A . ADA	P	B38105B-AB ADA	w	C357650-B.DEP	N/A
835A83A-B.ADA	P	B38106A-B.ADA	P	C35705P-B.DEP	N/A
B36101A-AB . ADA	P	B38106B-B. ADA	P	C35705Q-B.DEP	N/A
B36162A . ADA	P	C32107B-B. ADA	P	C35705R-B.DEP	N/A
B36103A.ADA	P	C32203A-B. ADA	P	C35705S-B.DEP	N/A
836165A-B.ADA	P	C34801A-B.ADA	P	C357057-B.DEP	N/A
836171A-B.ADA	P	C34001B-B.ADA	Þ	C35705U-B.DEP	N/A
B36171B-B.ADA	P	C34001C-B.ADA	P	C35705V-B.DEP	N/A
B36171C-AB . ADA	P	C34001D-B.DEP	P	C35705W-B.DEP	N/A
B36171D-AB . ADA	P	C34861E-B.DEP	Þ	C35705X-B.DEP	N/A
B36171E-AB . ADA	P	C34001F-B.DEP	N/A	C35705Y-B.DEP	N/A
B36171F-AB . ADA	P	C34001G-8.DEP	N/A	C35706A-B.DEP	P
836171G-AB . ADA	P	C34601H-B.ADA	P	C357068-B.DEP	P
836171H-AB . ADA	P	C348811-B.ADA	P	C35706C-B.DEP	N/A
8361711-AB.ADA	P	C34001K-B.ADA	Þ	C35706D-B.DEP	N/A
B36201A-B . ADA	P	C34801L-B.ADA	P	C35706E-B.DEP	N/A
B37003A-AB . ADA	P	C34001M-B. ADA	Þ	C35706F-B.DEP	N/A
837004A-B.ADA	P	C34801N-B. ADA	Þ	C35706G-B.DEP	N/A
837004B-B. ADA	P	C348810-B.ADA	P	C35706H-B.DEP	N/A
B37004C-B.ADA	P	C34861P-B.ADA	P	C357061-B.DEP	N/A
B37864D-B.ADA	P	C34881Q-B.ADA	P	C3570F.J-B.DEP	N/A
B37004E-B.ADA	P	C34001R-B.ADA	P	C35796K-B. DEP	N/A
B37004F-B. ADA	P	C34891T-B.ADA	P	C35706L-B.DEP	N/A
B37004G-B . ADA	P	C34802A-B.ADA	P	C35786M-B.DEP	N/A
837191A.ADA	P	C34002B-B.ADA	P	C35706N-B.DEP	N/A
B37201A . ADA	P	C35104A.ADA	P	C357060-B.DEP	N/A
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C35708J-8.DEP

N/A

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# Chapter 4

				•	
	P	845288G-AB . ADA	P	CHIDODA D. NOT	P
B41101A-B.ADA	P	845288H-8.ADA	P	C413830-8.ADA *	P
B41101C-AB . ADA	P	B452881-B.ADA	₽	C41303Q-8.ADA	P
841182A-AB. ADA	P	845288M-AB . ADA	P	C41303R-0.ADA	P
8411628-8.ADA	P	845288N-AB . ADA	₽	C413035-0.ADA	P
B41162C-B.ADA	P	B452085-AB . ADA	P	C41303U-8.ADA	P
841281A-B. ADA	P	845266 -AB ADA	P	C41303V-8.ADA	P
841261C.ADA	P	845261A-AB . ADA	P	C41303W-B. ADA	P
B41282A-B.ADA	6	B45261B-AB . ADA	P	C41304A-B. ADA	P
8412828-AB . ADA	P	845261C-AB . ADA	P	C41386A-B. ADA	P
B41202C-B.ADA	P	845261D-AB . ADA	P	C41306B-B. ADA	P
B412820-B.ADA	P	845482A . ADA	P	C41306C-B.ADA	P
B41362A-AB . ADA	9	B45522A . ADA	P	C42005A-B. ADA	P
B413628-AB . ADA	P	845533A-AB . ADA	P	C42006A-8.ADA	P
842664A-B.ADA	P	845001A-8.ADA	P	C43103A-8.ADA	P
843181A-B.ADA	•	B48901B-B.ADA	P	C431838-8.ADA	P
843281A-8.ADA	P	848002A-B.ADA	P	C43107A-B.ADA	P
8432018-8 ADA	P	848902B-B . ADA	P	C43205A-8.ADA	P
B43261C-B . ADA	P	B480020-B . ADA	P	C432058-8.ADA	P
8432810-8. ADA	P		P	C43205C-B.ADA	P
843282A-B.ADA	P	848002D-8.ADA 848002E-8.ADA	Þ	C43205D-8.ADA	P
8432828-B. ADA	P		P	C43205E-B . ADA	P
B43202C-B.ADA	P	848002F-B.ADA	P	C43205F-B.ADA	P
B43263A-8 . ADA	Þ	948002G-B. ADA	Þ	C43205G-B. ADA	P
8432938-8.ADA	P	845963A-B.ADA	P	C43285H-B . ADA	P
B44001A-B.ADA	₽	B480038-B . ADA	P	C432051-B.ADA	₽
844002A-B.ADA	P	B48003C-B.ADA	P	C43285J-B. ADA	P
8440028-B . ADA	P	848003D-8.ADA	P	C43205K-B.ADA	P
B44982C . ADA	P	848003E-B . ADA	P	C43286A-B.ADA	P
845102A-AB. ADA	P	B4A006A-B.ADA	P	C43207A-B.ADA	P
B45203A . ADA	₽	B4A016A . ADA	P	C432078-8 ADA	P
8452938-AB . ADA	P	C41181D-B.ADA	9	C43207C-B.ADA	P
B45205A-AB . ADA	P	C41103A-B.ADA	P	C43207D-B.ADA	P
845266A~AB . ADA	P	C41103B-B.ADA	P	C43288A-B.ADA	P
8452068-B . ADA	P	C41185A-8.ADA	-	C43288-8.ADA	P
845207A-AB . ADA	P	C41106A-B.ADA	P	C43218A-B.ADA	P
8452678-B. ADA	P	C41187A-AB.ADA	P	C43211A-B.ADA	P
845267C-8 . ADA	P	C412010-8.ADA	P	C43212A-8.ADA	P
845287D-8.ADA	P	C41203A-B.ADA	P	C43212C-B.ADA	P
845287G-8.ADA	P	C412038-8.ADA	P	C43213A-B.ADA	P
845287H-B. ADA	P	C41284A . ADA	P	C43214A-B.ADA	P
B452871-B.ADA	P	C41285A-8.ADA	P	C432148-8 ADA	P
845207J-8.ADA	P	C41286A.ADA	P	C43214C-B.ADA	P
845267M-AB . ADA	P	C41381A-8.ADA	P	C43214D-B.ADA	
845207N-AB . ADA	₽	C41303A-B.ADA	P	C43214E-B.ADA	ė
8452070-AB . ADA	P	C413038-B. ADA	P	C43214F-B.ADA	, P
B45287P-B. ADA	P	C41303C-B. ADA	P		ė
8452875-AB . ADA	P	C41383E-B.ADA	P	C43215A-B.ADA C43215B-B.ADA	é
B452871-AB . ADA	P	C41303F-B.ADA	P		P
845287U-AB . ADA	₽	C41383G-B. ADA	P	C45181A.ADA	P
B45287V-B.ADA	P	C413031-8.ADA	P	C451818.ADA	P
845268A-AB . ADA	P	C41383J-B. ADA	P	C45101C . ADA	P
8452888-B . ADA	₽	C41303K-B.ADA	P	C45101E.ADA	P
BASSBAC-B.ADA	P	C41383M-B.ADA	P	C45101G-AB. ADA	-

# Chapter 4

			P	C41303N-B. ADA	P
841181A-B.ADA	P	845288G-AB . ADA	P	Q-7-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Р
841181C-AB . ADA	P	845268H-B . ADA	P	04.0000 0	P
841182A-AB . ADA	P	8452881-B.ADA	P	C41303R-B.ADA	P
8411628-B.ADA	P	B45208M-AB . ADA	P	C41383S-B. ADA	P
B41162C-B.ADA	P	845208N-AB . ADA	P	C41383U-8.ADA	P
841201A-B. ADA	P	B452085-AB . ADA	P	C41303V-8.ADA	P
B41281C . ADA	P	B45208T-AB . ADA	P	C41303W-B.ADA	è
841282A-8.ADA	P	B45261A-AB.ADA	P	C41384A-B.ADA	P
8412028-AB . ADA	₽	8452618-AB . ADA	P	C41306A-B. ADA	P
841202C-B. ADA	P	B45261C-AB ADA	P	C413068-B.ADA	P
841202D-8 . ADA	₽	845261D-AB ADA	P	C41386C-B.ADA	P
841382A-AB . ADA	P	845402A . ADA	P	C42005A-B.ADA	P
8413028-AB . ADA	P	B45522A . ADA	P	C42005A-B.ADA	è
B42004A-B . ADA	P	B45533A-AB ADA	P	C43103A-B.ADA	ė
843101A-8.ADA	P	848001A-B.ADA	P	C43103B-B.ADA	ė
843201A-8.ADA	P	8480018-B. ADA	P	C43187A-B.ADA	P
8432018-8 . ADA	₽	848002A-B ADA	P	C43205A-B.ADA	P
843281C-B . ADA	₽	B48002B-B . ADA	P	C432058-B.ADA	è
843201D-8.ADA	P	B48002C-B . ADA	P	C43205C-B.ADA	P
843282A-B . ADA	P	848002D-B. ADA	P	C43205D-B.ADA	P
8432028-8.ADA	P	848002E-8.ADA	6	C43205E-B. ADA	P
B43202C-B . ADA	P	B48002F-B. ADA	P	C43205F-B.ADA	P
843283A-8. ADA	P	B48002G-B . ADA	P	C43205G-B . ADA	P
843203B-8 . ADA	₽	848903A-8. ADA	P	C43285H-B. ADA	P
844001A-8 . ADA	P	848003B-B.ADA	•	C432851-B.ADA	P
B44002A-B.ADA	P	B48003C-B.ADA	P	C43285J-B.ADA	P
844002B-8 . ADA	P	B48003D-B ADA	P	C43205K-B . ADA	P
B44002C . ADA	P	B48003E-B. ADA	P	C43286A-B. ADA	P
845102A-AB . ADA	P	B4A006A-B.ADA	P P	C43207A-B.ADA	P
B45203A . ADA	₽	B4A016A . ADA	•	C432078-B . ADA	e e
8452038-AB . ADA	P	C41101D-B.ADA	P	C43207C-B. ADA	p
845265A-AB . ADA	P	C41183A-B. ADA	P	C43207D-B. ADA	P
845266A-AB.ADA	P	C41103B-B.ADA	P	C43208A-B.ADA	P
8452868-B. ADA	P	C41105A-B.ADA	P	C432088-B.ADA	P
845207A-AB . ADA	P	C41186A-B.ADA		C43218A-B.ADA	P
8452078-8 . ADA	P	C41107A-AB.ADA	Þ	C43211A-B.ADA	P
B45207C-B . ADA	P	C41281D-B.ADA	Þ	C43212A-B. ADA	P
945207D-B. ADA	P	C41203A-B. ADA	Þ	C43212C-B.ADA	P
845207G-B.ADA	Þ	C41203B-B. ADA	Þ	C43213A-B. ADA	P
B45297H-B . ADA	P	C41204A . ADA	•	C43214A-B. ADA	٩
8452671-B.ADA	P	C41205A-B.ADA	P	C432148-B. ADA	P
B45207J-B . ADA	P	C41206A.ADA	•	C43214C-B.ADA	
845287M-AB.ADA	P	C41301A-B.ADA	P	C43214D-B.ADA	P
845287N-AB . ADA	₽	C41363A-B.ADA	P	C43214E-B.ADA	P
8452070-AB . ADA	P	C41303B-B . ADA	P	C43214F-B.ADA	·
B45207P-B.ADA	P	C41303C-B.ADA	P	C43215A-B.ADA	P
8452675-AB . ADA	P	C41303E-B. ADA	P	C432158-B.ADA	P
B452871-AB . ADA	P	C41303F-B. ADA	P		P
B45207U-AB . ADA	P	C41303G-B.ADA	P	C45181A.ADA C45181B.ADA	P
845287V-8.ADA	P	C413031-B.ADA	P	C451818.ADA	P
845288A-AB.ADA	P	C41303J-B. ADA	P		P
845288 <del>8-8</del> . ADA	P	C41383K-B.ADA	P	C45181E.ADA C45181G-AB.ADA	p
845288C-B.ADA	P	C41383M-B. ADA	P	C45181G-AB. AUA	•

D-8

N/A

C454241-B.DEP

C45321J-B. DEP

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C45621P.DEP	N/A	C48005B-B . ADA	P	C48009H-B . ADA	P
C45621Q.DEP	N/A	C48005C-B . ADA	w	C488091-B.ADA	P
C45621R.DEP	N/A	C48006A-B . ADA	P	C48889J-B.ADA	P
C45621S.DEP	N/A	C48006B-B.ADA	w	C48018A-B.ADA	P
C45621T.DEP	N/A	C48007A-B. ADA	P	C48012A-B.ADA +	P
C45621U.DEP	N/A	C48007B-B.ADA	₽	C4A001A.ADA *	P
C45621V.DEP	N/A	C48807C-B.ADA	P	C4ABB3A.ADA *	P
C45621W.DEP	N/A	C48008A-B.ADA	P	C4A811A.ADA	P
C45621X.DEP	N/A	C48008B-B.ADA	P	C4A010A-B.ADA	P
C45621Y.DEP	N/A	C48008C-B.ADA	P	C4A013A.ADA	P
C456217.DEP	N/A	C48008D-B . ADA	P	D4A002A-AB . ADA	F
C48004A-B.ADA	P	C48009A-B.ADA	P	D4A0028.ADA	P
C48004B-B . ADA	P	C480098-B . ADA	P	D4A884A-AB . ADA	P
C48864C-B.ADA	P	C48009C-B. ADA	P	D4A004B.ADA	P
C48004D-B. ADA	P	C48009D-B.ADA	P	E43211B-B.ADA	P
C48004E-B . ADA	P	C48009E-B.ADA	P	E432128-8.ADA	P
C48004F-B.ADA	P.	C48009F-B.ADA	P		
C48005A-B. ADA	Р	C48009G-B . ADA	P		
O-10000-1 0 1701	•				

# Chapter 5

		4D 4D4	P	8588028-AB . ADA	P
A54B01A-B.ADA	P	B54A27D-AB . ADA	P		P
A54802A-B . ADA	P	9548018-B.TST	P		P
A55B12A-AB. ADA	P	854801C-B. ADA	P	8589638-AB . ADA	P
A55813A-AB. ADA	P	8548028-8.ADA	Þ	859881A-AB . ADA	P
A55814A-AB. ADA	P	854892C-8.ADA	P	859061C-AB . ADA	P
851881A-AB . ADA	P	854802D-8.ADA	P	8590010-AB . ADA	P
851803A-AB . ADA	P	854894A-AB . ADA	P	859001E-AB . ADA	P
8518848-8 . ADA	P	854804B-AB . ADA	•	859001F-AB. ADA	P
851804C-B.ADA	P	854805A-AB . ADA	P	859001G-AB. ADA	P
B52882A-B . ADA	P	955A01A-AB . ADA	P	859001H-AB . ADA	P
8528828-AB . ADA	P	855A018-AB . ADA	P	8590011-AB.ADA	P
852662C-AB . ADA	P	855A01C-AB. ADA	P		P
B52002D-AB . ADA	P	B55A01D-AB.ADA	P	C51002A-AB. ADA	P
B52002E-AB . ADA	₽	855A01E-A8.ADA	P	C51004A-B.ADA	P
B52002F-B.ADA	P	B55A01F-AB.ADA	P	C52801A-B.ADA	, P
852002G-AB . ADA	P	B55A81G~AB . ADA	P	C52001B-AB . ADA	P
852003A-AB . ADA	P	855A01H-AB . ADA	P	C52001C-AB . ADA	P
8528638-AB . ADA	P	B55A61 I-AB . ADA	P	C52005A-AB.ADA	P
852883C-AB . ADA	P	B55A01J~AB.ADA	P	C520058-AB . ADA	
852004A-B.ADA	Þ	B55AB1K-AB.ADA	P	C52005C-AB . ADA	P
B520048-AB.ADA	P	B55A01L-AB. ADA	P	C52005D-AB . ADA	P
B52004C-AB . ADA	P	BSSAB1M-AB.ADA	P	C52005E-AB . ADA	P
B52004D-AB . DEP	P	B55A01N-AB . ADA	P	C52005F-AB . ADA	P
B52004E-AB . DEP	Þ	B55A010-AB . ADA	P	C52007A-B.ADA	P
852006A-AB ADA	Þ	B55A01P-AB. ADA	P	C52008A-AB. ADA	P
	P	BSSAG1Q-AB. ADA	P	C520088-8 . ADA	۴
853001A-AB . ADA	P	BSSA01R-AB.ADA	P	C52009A-B.ADA	P
9530018-AB.ADA 953002A-AB.ADA	Þ	B55A01S-AB . ADA	Þ	C52009B-B . ADA	P
	Þ	855A01T-AB.ADA	Þ	C52010A-AB. ADA	₽
8530628-AB . ADA	P	855461U-AB . ADA	₽	C52011A-B. ADA	P
853003A-AB . ADA	P	B55A01V-AB . ADA	P	C520118-AB. ADA	P
B53004A-AB . ADA	P	B55801A-AB . ADA	₽	C52012A-AB.ADA	P
853009A-AB . ADA	Þ	855801B-AB. ADA	P	C52012B-AB . ADA	P
8536698-AB . ADA	P	8558898-AB ADA	Þ	C52013A-B. ADA	P
853089C-AB . ADA	P	B55809C-AB . DEP	P	C52101A-AB . ADA	P
B54A01A-AB . ADA	•	855889D-AB . DEP	P	C52182A-AB . ADA	P
854A818-AB . ADA	P	B55812B-B. ADA	P	C521028-AB . ADA	P
B54AB1C-AB. ADA	P	855812C-AB. ADA	,	C52182C-AB ADA	P
B54A61D-AB . ADA	P	B55B14B-B.ADA	P	C521820-AB . ADA	P
B54A01E-AB.ADA	P	855818A-8.ADA	P	C52163A-AB . ADA	P
B54AB1F-AB.ADA	P	B56001A-AB.ADA	P	C52103B-AB . ADA	P
B54A81G-AB.ADA	P	956001C-AB.ADA	P	C52103C-AB . ADA	₽
B54A61H-AB.ADA	P		P	C52183F-AB. ADA	P
854A811-AB.ADA	P	856001D-AB. ADA	P	C52103G-AB . ADA	P
B54AB1J-AB.ADA	P	B56001E-AB.ADA	P	C52183H-AB . ADA	P
B54AB1K-AB.ADA	P	B56991F-AB.ADA	P	C52183K-AB . ADA	P
B54A01L-AB.ADA	P	856001G-AB.ADA	,	C52183L-AB. ADA	P
B54A85A.ADA	P	856001H-AB . ADA	P	C52161 4-AB. ADA	P
954A958 . ADA	P	B57001A-AB.ADA	P	C52183P-AB . ADA	P
854A88A-8 . ADA	P	8576018-8.ADA	P	C521830-AB . ADA	P
B54A28A . ADA	P	857881C-AB.ADA	•	C52163R-AB . ADA	P
854A21A-B.ADA	P	857661D-AB . ADA	P	C52163\$-8.ADA	P
B54A25A-B.ADA	P	858001A-AB.ADA	•	C52163X-B.ADA	N/A
854A278-A8 . ADA	P	B58002A-0.ADA	P	COX 183X-8 - ADA	77/

	Þ	C54A27A-AB . ADA	P	C57884B-AB . ADA	P
C52104A-AB . ADA	•	C54A41A.ADA	P	C57004C-AB . ADA	P
C521848-AB . ADA	P	C54A42A . ADA	P	C57005A-B . ADA	P
C52104C-AB . ADA	P	C54A42B.ADA	P	C58004A-AB . ADA	P
C52104F-AB . ADA	P	C54A42C . ADA	P	C58004B-AB . ADA	P
C52184G-AB . ADA	P	C54A42D ADA	P	C58994C-AB . ADA	₽
C52104H-AB . ADA	P	C54A42E . ADA	Þ	C58994D-B . ADA	₽
C52184K-AB . ADA	P		P	C5B004F-AB . ADA	₽
C52184L-AB . ADA	P	C54A42F.ADA	P	C58004G-AB . ADA	P
C52184M-AB . ADA	₽	C54A42G . ADA	P	C58005A-AB . ADA	P
C52184P-AB . ADA	₽	C55B03A-AB.ADA	Þ	C58005B-AB . ADA	P
C521840-AB . ADA	P	C55804A-AB . ADA	P	C58005H-AB . ADA	P
C52184R-AB . ADA	P	C55805A-AB . ADA	Þ	C58996A-AB . ADA	P
C52184X-B. ADA	N/A	C55806A-AB . ADA	P	C58006B-AB . ADA	P
C52104Y-B. ADA	N/A	C558068-AB ADA	•	C590018-AB ADA	P
C53004B-B.ADA	P	C55807A-AB . DEP	₽	C59002A-AB . ADA	P
C53005A-AB . ADA	₽	C55B07B-AB DEP	P	C590028-AB . ADA	P
C530058-AB . ADA	P	C55888A-B. ADA	P	C59002C-B. ADA	P
C53006A-AB . ADA	P	C55B09A-AB . ADA	P	D55A03A-AB . ADA	P
C538869-AB . ADA	P	C55B15A-B.ADA	P	D55A03B-AB . ADA	P
C53007A-AB . ADA	₽	C55B16A-AB.DEP	N/A	D55A03C-AB . ADA	P
C53008A-AB . ADA	P	C55C01A-B.ADA	P	D55A63D-AB . ADA	P
C54AB3A.ADA	P	C55C02A-AB.ADA	P	D55A03E-AB . ADA	P
C54A64A-AB. ADA	P	C55C02B-AB.ADA	P		P
C54A06A-AB . ADA	P	C55C03A-AB.ADA	P	D55A03F-AB.ADA	N/A
C54A07A-AB ADA	P	C55C03B-AB.ADA	P	D55A03G-AB . ADA	N/A
C54A22A-AB. ADA	₽	CSSD01A-AB.ADA	P	D55A03H-AB .ADA	nyn P
C54A23A-B.ADA	P	C56002A-AB . ADA	P	D560019-AB.ADA	P
C54A24A-AB ADA	P	C57002A~AB . ADA	P	E52193Y-B. ADA	۲
C54A24B. ADA	P	C57003A-AB . ADA	P		
C54A26A.ADA	ء م	C57884A-AB . ADA	P		
COTAZOA.AUA	•	<b>3</b>			

# Chapter 6

				COLLEGE AR ARA	P
A62006D-B.ADA	P	B64002A-B. ADA	P	CD4 1845-ND - NUN	P
A63202A-AB . ADA	P	864882C-B . ADA	P	C64104C-AB.ADA ** C64104D-AB.ADA **	P
B61881A-AB . ADA	P	B64003A-B. ADA	P	C64104E-AB. ADA	P
8618618-AB . ADA	P	864004A-B. ADA	P	C64104F-AB . ADA	P
861881C-AB . ADA	P	B64004B-B . ADA	P		P 4
861861D-AB . ADA	P	B64004C-B.ADA	P	C64104G-AB . ADA	P
861001E-AB . ADA	P	B64994D-B . ADA	P	C64104H-B.ADA	ь Б
B61001F-AB . ADA	P	B64004E-B. ADA	P	C641041-B.ADA	P
861001G-AB. ADA	P	B64004F-B. ADA	P	C64104J-B.ADA	Þ
861001H-AB. ADA	P	B64006A-B. ADA	P	C64164K-AB . ADA	Þ
B610011-AB.ADA	P	B64101A-B.ADA	P	C64104L-AB.ADA	P
861001J-AB. ADA	₽	B64201A-B. ADA	P	C64104M-AB.ADA	P
861881K-AB . ADA	P	865001A-B. ADA	P	C64104N-B.ADA	Þ
861001L-AB . ADA	P	B65002A-AB . ADA	P	C641040-B.ADA	Þ
B61001M-AB . ADA	P	B65002B-AB . ADA	P	C64105A-AB. ADA	P
861001N-AB . ADA	P	B66001A-B.ADA	W	C64105B-AB . ADA	-
B610010-AB ADA	P	B66001B-B.ADA	P	C64105C-AB . ADA	P
B61001P-AB. ADA	P	B66001C-B.ADA	P	C64105D-AB . ADA	₽
B610010-AB ADA	P	867001A-B.ADA	w	C64105E-AB . ADA	₩
861001R-AB . ADA	₽	B670018-B. ADA	P	C64105F-AB. ADA	W
8618015-AB. ADA	P	B67001C-B.ADA	P	C64106A-B.ADA	P
861001T-AB. ADA	P	B67001D-B.ADA	P	C641968-B. ADA	P
861881U-AB. ADA	P	B67801E-B. ADA	₽	C64105C-B.ADA	P
B61001V-AB . ADA	P	B67801F-B. ADA	Þ	C64196D-B . ADA	P
861001W-AB . ADA	P	B67801G-B.ADA	P	C64187A-B. ADA	P
861003A-AB . ADA	P	867004A-8.ADA	₩	C64108A-B. ADA	P
B61006A-B.ADA	P	C61003B-AB . ADA	P	C64201B-B. ADA	P
B61011A-B.ADA	P	C61998A-B . ADA	P	C64281C-B. ADA	P
B61012A-B.ADA	P	C61009A-B. ADA	P	C64202A-B . ADA	P
B62881A-AB . ADA	P	C61010A-AB . ADA	P	C65003A-B.ADA	P
9620018-AB.ADA	P	C62002A-B . ADA	P	C65003B-B . ADA	P
862001C-AB. ADA	P	C62003A-B. ADA	P	C66002A-B.ADA	P
B62001D-AB ADA	P	C62003B-B. ADA	P	C66002C-AB . ADA	P
8620068-B. ADA	P	C62004A-AB . ADA	P	C66002D-AB . ADA	P
862006C-8.ADA	P	C62886A-B.ADA	P	C66002E-AB . ADA	P
B62006E-B.ADA	q	C63004A-AB . ADA	P	C56002F-AB . ADA	P
86266F-B. ADA		C640028-8.ADA	P	C66002G-B. ADA	P
863801A-AB.ADA	P	C64994G-B.ADA	P	C67002A-B. ADA	P
B63001B-AB.ADA		C64005A-B.ADA	P	C670028-8 . ADA	P
B63005A-AB.ADA	P	C64005B-B.ADA	P	C67882C-B.ADA	P
8630058-AB.ADA		C64905C-B.ADA	P	C67002D-B.ADA	P
863805C-AB. ADA	P	C64995D-B.ADA	P	C67002E-B.ADA	P
863009A-8.ADA	Þ	C64885D8M	С	C67003A-B.ADA	P
	Þ	C64005DA	C	C670038-8.ADA	P
B63009B-B. ADA	Þ	C64885DB	C	C67883C-AB . ADA	P
863889C~B.ADA	Č	C64005DC	Č	C57003D-B.ADA	₽
863089C0	c	C64103A-B. ADA	P	C67003E-AB. ADA	P
963009C1	c	C641038-8.ADA	P	C67885A-B. ADA	P
863009C2	c	C64103C-B. ADA	w	C678058-8 . ADA	P
863009C3M	P	C64103D-B.ADA	W	C67005C-B.ADA	P
863818A~AB.ADA	P	C64103E-B.ADA	P	C670050-B.ADA	P
B63182A-B.ADA	P	C64103F-B.ADA	P	D64005E-B. ADA	P
963103A-B. ADA	P	C64184A-AB . ADA	P	D64005E0M	C
864881A-B. ADA	~	CB4184V-169 - 169v	•		

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D64005FB D64005FC	C C	D64005GD D64005GE	c	D64005GQ	С
D64005FD D64005FE	c	D64005GF	C		

# Chapter 7

		AD ADA	P	B74105A-B. ADA	i p
A71002A-AB. ADA	P	B710010-AB. ADA	P	B74105C-B.ADA	t p
A71004A-AB.ADA	₽	B71801R-AB . ADA	6	874201A-AB . ADA	- p
A72001A-AB. ADA	P	B71881T-AB . ADA	P	B74285A-B.ADA	P
A73001 I~AB . ADA	₽	871861U-AB. ADA	•	8742058-B. ADA	P
A73001J-AB. ADA	P	B71661V-AB . ADA	P	B74207A-B.ADA	w
A74886A-AB . ADA	P	871981W-AB . ADA	P	874301A-B. ADA	P
A741058-B. ADA	P	8716628-AB . ADA	P	874304A-8.ADA	P
A74186A-AB . ADA	P	B73001A-AB . ADA	P	874304B-B.ADA	P
A741068-AB . ADA	P	8738618-AB . ADA	P	874384C-B.ADA	P
A74186C-AB . ADA	P	B73001C-B. ADA	P	B74401A-B.ADA	P
A74205E-B. ADA	P	873001D-B.ADA	P	8744618-8.ADA	P
A74205F-B. ADA	P	873801E-AB . ADA	P	8744616-8.ADA	P
871001A-AB. ADA	P	873001F-AB.ADA	P		, P
871801B-AB ADA	P	873001G-8.ADA	₽	C720018-AB.ADA	P
B71601C-AB . ADA	₽	873801H-B.ADA	P	C73002A-B . ADA	P
8716010-AB.ADA	P	B73006A-AB . ADA	₽	C74206A-B. ADA	P
871061E-AB ADA	P	B74901A-AB . ADA	P	C742078-B.ADA	P
B71001F-AB. ADA	P	B740018-AB . ADA	₽	C74209A-AB . ADA	P
8710015-AB. ADA	P	B74003A-B.ADA	P	C74216A-AB . ADA	P
871601H-AB . ADA	P	B74101A-B. ADA	P	C74211A-B.ADA	P
8710011-AB. ADA	P	B74103A-B.ADA	P	C742118-B.ADA	P
B71801J-AB. ADA	P	8741838-B. ADA	P	C74362A-B.ADA	P
871881K-AB. ADA	P	B74163C-B.ADA	P	C74385A~B. ADA	•
B71001L-AB.ADA	P	8741930-B. ADA	P	C74305B-B.ADA	P
B71001L-AB.ADA	P	874183E-8.ADA	₽	C74482A~B.ADA	
- · · · · · · · · · · · · · · · · · · ·	P	874183F-B. ADA	W	C74402B-B. ADA	P
B71861N-AB.ADA	P	874183G-B.ADA	P	C74409B-B. ADA	P
B719010-AB ADA	P	B74104A-B. ADA	P		
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AB3AB2A . ADA	P	886981BO-B . ADA	P	CB7A05A-B.ADA	•
AB3A02B.ADA	P	986001BU-B.ADA	P	C87A05B-B.ADA 1	-
AB3AB6A-B. ADA	P	B86881BV-B. ADA	P	C87802A-8 . ADA	· P
AB3C01C.ADA	P	8850018W-8.ADA	Þ	C878028-8 . ADA	P
AB3C01D . ADA	P	B86001BX-B.ADA	P	C87863A-8 . ADA	₽
AB3C01E.ADA	P	BB6001COM-AB.DEP	P	C87804A-B . ADA	P
AB3C01F.ADA	P	BB6001CP-AB.DEP	N/A	C878648-B . ADA	P
AB3CB1G.ADA	P	BB6001CQ-AB.DEP	N/A	C87884C-B . ADA	P
AB3C01H, ADA	₽	886001CR-AB.DEP	P	C87905A-B.ADA	P
AB3C01I, ADA	P	B86001CS-AB.DEP	P	C87B06A-B . ADA	P
A83C01J.ADA	P	986001D0M-AB.TST	P	C87807A-B . ADA	₽
AB5007D-B . ADA	₽	886901DT-AB.TST	N/A	C878078-8.ADA	P
A850138-B. ADA	P	8878238-B . ADA	P	C87B67C-B . ADA	₽
BB3A01A-AB.ADA	P	887848C-B. ADA	P	C878070-8 . ADA	P
B83A61B-B. ADA	P	C83802A . ADA	P	C87807E-8.ADA	P
B83A01C.ADA	P	C838028 . ADA	P	C87808A-B . ADA	P
BB3A05A-AB . ADA	P	C83C01B.ADA	P	C87809A-B. ADA	P
883A868-8.ADA	P	CB3EB2A.ADA	P	C878098-B.ADA	P
BB3AB6H-B.ADA	P	CB3E02B.ADA	P	C87B09C-B . ADA	P
883881A-AB . ADA	P	CB3E03A.ADA	P	C87B10A-B.ADA	P
883802C . ADA	P	CB3E04A.ADA	P	C87811A-B.ADA	P
B83C01A-AB.ADA	P	CB3FØ1A.ADA	P	C87B11B-B ADA	P
B83C62A.ADA	P	CB3F01B.ADA	P	C87813A-B . ADA	P
B83E02C-B.ADA	P	CB3F01C.ADA	P	C87B14A-B. ADA	P
B83F02A.ADA	P	C83F01C0	P	C878148-8 . ADA	P
983F02B. ADA	₽	C83F01C1	P	C87B14C-B.ADA	P
BB3F84A-AB.ADA	₽	C63F61C2M	P	C87B14D-B.ADA	P
B84991A-AB . ADA	P	CB3FØ1D.ADA	P	C87B15A-B.ADA	Þ
B84002B-B . ADA	P	C83F01D0M	P	C87B16A-B.ADA	P
B84004A-B.ADA	P	C83F91D1	P	C87817A-B.ADA	P
B84006A-B . ADA	P	C83F03A.ADA	P	C87818A-B ADA	P P
B850078-B. ADA	P	C83F03B.ADA	P	C878168-8.ADA	P
885007C-B.ADA	P	CB3FØ3C.ADA	P	C87B19A-B.ADA	P
B85012A-B.ADA	P	C83F03C0	P	C67823A-B.ADA	₽
B85013C-B.ADA	P	C83F83C1	P	C67824A-8.ADA	P
B85015A-B. ADA	P	C83F83C2M	P	C878248-B.ADA	P
B86001A-AB.ADA	P	CB3F03D.ADA	P	C678268-8.ADA	P
B86001A0	P	C83F83D8M	P	C87827A-B.ADA	, P
886001A1M	P	C83F63D1	P	C87828A-B.ADA	P
B86001B0M	P	C84002A~B. ADA	P	C87829A-B.ADA	P
886001BA-B.ADA	P	C85007A-B.ADA	P	C87830A-B. ADA	P
88600188-8.ADA	P	C85007E-B. ADA	P	C87831A-B.ADA	P
886001BC-B. ADA	P	C85013A-8. ADA	P	C87B32A-B . ADA	P
8860018D-8.ADA	P	C86001E-B. ADA	P	CB7B33A-B.ADA	P
8860018E-8.ADA	P	C86001F-8.DEP	N/A	C87B34A-B.ADA	P
8860018F-B.ADA	P	C86002A.ADA	P	C87B34B-B.ADA C87B34C-B.ADA	P
8868818G-8.ADA	P	C86002A0	P	••••	P
8850018H-8. ADA	P	C86082A1	P	C87835A-8 . ADA	P
B86001B1-B.ADA	P	C86992A2M	P	C87B35B-B.ADA	P
B86001BJ-B.ADA	P	C86802B.ADA	P	C87B35C-B.ADA	P
B86001BK-B.ADA	P	C86002B1	P	C87B37A-B.ADA	P
8866618L-8.ADA	P	C86002B2M	P	C878378-B.ADA	P
886801BM-B.ADA	P	C86003A-B.ADA	P	C87837C-B.ADA	~

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A91002M-B. ADA	N/A	B950AJA-B, ADA	P	C920BAA-B.ADA *	P
A95005A . ADA	P	8958BAA-B, ADA	P	C9208BA-B . ADA	P
A97106A-AB . ADA	P	B950DHA-B.ADA	₽	C92081A-8.ADA	P
B91001A-AB.ADA	P	B96002A-B.ADA	P	C93001A-B.ADA	P
8910018-AB . ADA	P	B96003A-B . ADA	P	C93002A-B.ADA	P
891001C-AB.ADA	P	B97101A-AB.ADA	P	C93003A-B.ADA	P
B91001D-AB . ADA	P	8971618-AB.ADA	P	C93005A-B . ADA	P
B91001E-AB . ADA	P	897101C-AB . ADA	P	C93005B-B . ADA	w
B91001F-AB . ADA	P	897101D-AB . ADA	P	C93005C-B . ADA	w
B91001G-B.ADA	N/A	897101E-AB . ADA	P	C93006A-AB . ADA	P
B91002A-B.ADA	P	B97102A-AB . ADA	P	C93007B-B . ADA	w
891002B-B. ADA	P	8971028-AB . ADA	P	C930ABA-B.ADA	P
B91002C-B.ADA	P	897102C-AB . ADA	P	C930AFA-B.ADA	P
B91002D-B.ADA	P	B97102D-AB . ADA	P	C930AJA-B.ADA	P
B91002E-B.ADA	P	897102E-AB . ADA	₽	C930BAA-B.ADA	P
891002F-B. ADA	P	B97102F-AB ADA	P	C94001A-B.ADA	Þ
891002G-8.ADA	Þ	897162G-AB . ADA	P	C94002A-B.ADA	, P
B910020-B.ADA	P	897102H-AB . ADA	P	C94002B-B.ADA	P
B910021-B.ADA	P	B97102I-AB.ADA	P	C94003A-B.ADA	P
8910021-B.ADA	é	897103A-AB.ADA	P	C94884A-B.ADA	P
	P		P		P
B91002K-B.ADA	P	8971638-AB . ADA	P	C94804B-B.ADA	P
B91002L-B.ADA	P	B97163D-AB . ADA	•	C94004C-B.ADA	P
891003A-AB. ADA		B97183E-AB. ADA	P	C94005A-B.ADA	•
891004A-B. ADA	P	897104A-AB . ADA	P	C940058-B.ADA	P
B910ABA-B.ADA	P	8971048-AB.ADA	P	C94006A-B.ADA	P
B910ACA-B.ADA	P	B97104C-AB.ADA	P	C94007A-B.ADA	P
B910AEA-B.ADA	P	B97164D-AB . ADA	P	C94007B-B.ADA	P
B910BCA-B.ADA	P	B97104E-AB. ADA	P	C94020A-B.ADA	P
B920ACA-B.ADA	P	897104F-AB.ADA	P	C94021A-B.ADA	₽
8920BJA-8. ADA	P	897104G-AB . ADA	P	C940ABA-B.ADA	P
B920BDA-B.ADA	₽	B97107A-AB.ADA	P	C940ACA—B.ADA	P
B95001A.ADA	P	897188A-AB.ADA	P	C949ACB-B.ADA	P
8950018-AB.ADA	P	8971668-AB.ADA	P	C948ADA-B.ADA	P
B95002A.ADA	P	B97109A-AB.ADA	P	C948AGA—B . ADA	P
B95004A-AB . ADA	P	897118A-AB.ADA	P	C940AGB-B.ADA	P
895004B-AB.ADA	P	B97110B-AB.ADA	P	C940AHA-B.ADA	P
895006A . ADA	P	897111A-AB.ADA	P	C940A]A-B.ADA	P
8950068-AB . ADA	P	B99001A-AB.ADA	P	C940BAA-B.ADA	P
895006C-AB . ADA	P	8990018-8.ADA	P	C9466BA-B.ADA	P
B95005D-AB . ADA	P	899002A-8.ADA	P	C95008A-AB . ADA	P
B95007A-AB . ADA	P	B99002B-B . ADA	P	C95009A-B.ADA	P
8950078-AB . ADA	₽	899002C-8.ADA	P	C95009B . ADA	P
895020A-8 . ADA	P	B99003A~AB . ADA	P	C95010A . ADA	P
B95020B-B. ADA	P	B9A001A-AB.ADA	P	C95811A.ADA	P
89502000	C	9940018-AB . ADA	P	C9581 RA-B. ADA	P
B9562681	C	C900ACA-B.ADA	P	C95013A-B.ADA	P
895020B2M	C	C918AHA-B.ADA	P	C95021A-B.ADA	P
8950ABA-B . ADA	P	C919BDA-B.ADA	P	C95022A-B.ADA	P
B950ABB-B. ADA	P	C918808-8, ADA	P	C95022B-8 . ADA	p
B950ACA-B. ADA	P	C910BDC-B.ADA	P	C95848D-B . ADA	P
B950ADA-B.ADA	P	C92002A.ADA	P	C958ACB-B.ADA	P
B958AFA-B.ADA	P	C92003A.ADA	P	C950BGA-B.ADA	P
B950AHA-B. ADA	P	C929AJA-B.ADA	P	C950BHA-B.ADA	P
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C950BJA-B.ADA	₽	C96007A-B.ADA	P	C97303A-AB . ADA	P
C950CAA-B.ADA	P	C9600BA-B. ADA	P	C973038-AB . ADA	₽
C950CBA-B.ADA	P	C96008B-B . ADA	P	C97304A-B.ADA	P
C956CHA-B.ADA	P	C97113A-B. ADA	P	C9A003A-B.ADA	P
C958CHC-B.ADA	P	C97114A-B.ADA	P	C9A004A-B.ADA	P
C950DEA-B.ADA	P	C97115A-B.ADA	P	C9A005A-B.ADA	P
C950DEB-B . ADA	P	C97201A-AB.ADA	P	C9A006A-B.ADA	P
C950DGA-B.ADA	P	C97281D-AB.ADA	P	C9A007A-B.ADA	P
C96001A-B. ADA	P	C97201E-AB. ADA	P	C9A009A-B.ADA	P
C96004A-B.ADA	P	C97201G-AB. ADA	P	C9A0098-B. ADA	P
C96005A-B. ADA	P	C97201H-AB . ADA	P	C9A009C-B.ADA	P
C96005B-B.TST	P	C97201X-AB.ADA	P	C9A009D-B.ADA	P
C96005C-B.TST	P	C97202A-AB. ADA	P	C9A009E-B. ADA	P
C96005D-B . ADA	P	C97203A-AB. ADA	P	C9A009F-B. ADA	P
C96005E-B . ADA	P	C97203B-AB . ADA	P	C9A009G-B . ADA	P
C96006A-B. ADA	P	C97204A-B.ADA	P	C9A999H-B . ADA	P

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BATTBIC-B. ADA AGA . BA-1100EA8 BYZBIZYI +81911AB э BY2001E2 BY2013Y0 Э 281911VB BA3001E2 3 AGA . 8-AZ 1 82AB Э ZRIGILYS 13100CAB 8Y2889898 Э IBIBILIAB Э 845861E6M **268**60£A8 Э BATTOTBOM 842001E-AB. ADA 2 8458884 d Э AGA. 6-BIOTIAB Э IG100CA8 8A300883 c AGA . BASA TOTTAB d BA366106M э 843**9999**2 BYIBSeca AGA . BA-G1 665A8 Э 188992AB ď э BYIBSOC 8Y2001C1 3 8Y2009B0 Э 8V1656C2 э 8Y2991C9M AGA . 8-8800CAB d 8V1656C5 843861C-48. ADA э BY2008Y2W d Э DATECT э LAIGOCAB 2 #**Y866**5Y8 Э BAISSCOM э 84366186M Э **EA800**EA8 BA1020C-8.ADA AGA.B1805AB d BY2008YS Э BAISZOBOM EA1002A8 э 148002AB Э э C8079148 8A3001A2 э 84399248 +80Z81YB IA160CAB э Э AGA . 8-A8002AB d CBOZOLVB þ MOAT GOCAR Э MBBTOGZAB Э ZBOZOLYB э BA3661A-AB . ADA э TBT862AB 84162681 AGA . 8-82 FBSAB э d **38196**2A8 э 84102988 AGA . 8-AZ FOSAB **281992AB** Э BA10208-8 . ADA BAZOGSAT #87992A8 BABSBIAB M982002AB Э э **EB7002AB** э 841626A7 Э AGA . 8A-85005A8 SBTOGEAB э 94929148 BAZSSICI 187662AB BATOZONS BYSODICOM Э э **88786**248 2 +4628!AB 842661C-AB. ADA AGA . 8-87802AB BA1626A3 Э BAZOBIEZ MEAT GOE AS BATBZOAZ BAZOBIFI Э #AT662A8 2 PASSIAB BYSOOJEGM Э CATOOCAB 3 BYISSOYOM Э 842961F-AB. ADA э ZATOGEAR A0A . 8-A0581A8 8A2001E2 FAT002AB Э 801161A8 131002VB BATBGEAB Э þ SAIBIICT BYSOBIEOM AGA . 8-AT60EAB d BAIBIICE ADA . 84-31662AB э M+89865A8 0 BAIGIICS ACA-G1002AB 283005AB Э BAIGIIC4 Э BYS661C-YB. YDY э 8A300EA8 BYIBIIC2 404 . 84-8 1 86 2 AB э 18906EA8 Э SYIGIICS AGA . 8A-A1 88 SA8 843885AB Э BAISIICI BATTOTHIM AGA . 8-83605A8 d BATETICOM Э SATIOTAS 2 MOADOGEAR Э BA1911C-B. ADA AGA . 8-HFB FFAB CADOOCAS BRITETAB 2 BATTETC-8.ADA d э 843866A4 TBITOTAB AGA.8-TIBITA8 Э 84300EA8 d Э SELIBIAB AUA . B-31611A8 SYDOOLVA þ CBITOLAB AGA . 8A-01811A8 2 BASSOGAS э +BITOTAB э BATTOTCS ۵ 87200678 Э EBITOTAB #DIBLIVE 3 AQA . 8-A3662AB BATOTIB2 э BY1181C2 3 8Y2001L3 c ISTIGIAB BATTOTCZM э BY2001LS ۵ Э MOBILETAB IDIGITY BYZBBILI Э AGA . 8-BITOTAB BATTETCE

8A18118-9.A0A	Ρ	BA1181C8	С	8A3881F6M	С
BA1811B6M	С	BA1161C1	С	BA3001F1	C
BA1011B1	С	BA11@1C2M	С	BA3001F2	C
BA1011B2	С	BA1101C3	C	BA3 <b>00</b> 1F3	C
BA101183	С	BA1181C4	С	Bajooga-B.ADA	P
BA101184	С	BA1101C5	С	9A3 <del>00</del> 6A <b>0</b>	C
BA181185	С	BA1101D-AB.ADA	P	BA3006A1	С
BA1011B6	С	BA1181E-8.ADA	P	BA3006A2	С
BA101187	С	BA1101F-8.ADA	P	BA3006A3	C
BA1911B8	C	BA1181G-8.ADA	P	BA3006A4	C
BA1011C-8.ADA	ρ	BA11@1H-B.ADA	P	8A3 <del>00</del> 6A5	C
BA1611C6M	С	BA1101H0	C	BA3006A6M	C
BA1811C1	С	BATTETHIM	С	BA30068-B.ADA	P
BA1011C2	С	BA2001A-AB. ADA	P	BA3006B0	C
BA1611C3	С	BA20018-AB ADA	P	BA3006B1	C
BA1611C4	С	BA2001C-AB ADA	P	BA3006B2	Ç
BA1011C5	С	BA20010-AB. ADA	P	BA3006B3	C
BA1011C6	С	8A2001E-AB.ADA	P	BA3006B4M	C
BA1611C7	C	BA2001E0M	C	BA3007A-8 . ADA	P
BA1611C8	C	BA2001E1	С	BA3007A0	С
BA1626A-8 . ADA	P	8A2001E2	С	BA3 <del>00</del> 7A1	С
BA1020AOM	С	BA2001F-AB. ADA	P	BA3007A2	С
BA1026A1	С	BA2001F0M	С	BA3007A3	C
BA1626A2	С	BA2001F1	С	BA3007A4	С
BA1020A3	С	BA2001F2	С	BA3007A5M	C
BA1020A4	C	BA2881G-AB. ADA	P	BA30078-8.ADA	P
BA1020A5	С	BA2001G0M	С	BA300780	C
BA1020A6	С	BA2991G1	С	BA300781	C
BA1020A7	С	BA2003B-AB . ADA	P	BA3007B2	C
BA1828A8	C	BA200380M	С	BA300783	C
BA16268-8.ADA	P	BA200381	С	BA300784	C
BA102080	C	8A2013A-8.ADA	P	8A3007B5	C
BA182881	C	BA2013B-8.ADA	P	BA300786	C
8A102082	C	BAJOO1A-AB.ADA	P	BA300787	C
BA102083	С	BA3001A0M	С	BA3007B8M	C
BA102084	С	BA3001A1	C	BA3008A-B . ADA	P
BA102085	C	8A3881A2	С	Ba3008A0	C
BA102086M	C	BA3001A3	C	BA3068A1	C
BA1020C-8.ADA	P	BA30018.ADA	P	BA3008A2	C
BA1020C6M	C	BA300180M	С	BA3008A3	C
BA1828C1	C	BA366181	С	BA30 <b>08</b> A4	C
BA1020C2	C	BA3801C-AB.ADA	P	BA3008A5M	C
8A1828C3	C	BA3661C6M	C	BA30088-8 . ADA	P
8A1626C4	C	BA3881C1	C	BA~00880	C
BA1020C5	C	BA30010-AB.ADA	P	BA300881	C
BATTETA-AB. ADA	P	BA3001D0M	C	BA3008B2	C
BATTOTO . ADA	P	BA3001D1	C	BA3008B3	C
8A116186M	C	BA3001E-AB.ADA	P	BA3 <b>008B4</b>	C
BA110181	C	BA3001E6M	С	BA300885	C
8A116182	¢	BA3001E1	C	BA3000B6M	C
BA110183	C	BA3001E2	C	BA3813A-8.ADA	P
8A110184	C	BA3001E3	C	BA3013A0	C
0444040 # ADA	•	RASBOTF-AB. ADA	P	BA3013A1	C

	_	CA1813A5	С	CA2008A-B.ADA	P
BA3013A2	C C	CA1013A6M	Č	CA2008A8M	С
BA3013A3 BA3013A4	c	CA1914A-AB.ADA	P	CA2008A1	C
BA3013A4 BA3013A5	C	CA1014A0M	c	CA2008A2	С
BA3913A6	Č	CA1014A1	c	CA2009A-B.DEP	P
BA3013A7M	č	CA1814A2	С	CA2009B-B.DEP	w
CA1002A-B.ADA	P	CA1014A3	c	CA2009C-B.DEP	N/A
CA1802A-0.ADA	ċ	CA1822A-B.ADA	P	CA2009C0M	C
CA1802A1	Č	CA1822A8	C	CA2009C1	C
CA1002A1	c	CA1022A1	c	CA2009D-B . DEP	P
CA1882A3M	c	CA1022A2	С	CA2009E-B.DEP	w
CA1002A3M	c	CA1022A3	С	CA2009F-B.DEP	w
CA1002A5	c	CA1022A4	C	CA2009FOM	С
CA1002A5	Č	CA1822A5	С	CA2009F1	C
CA1002A7	c	CA1022A6M	C	CA3002A-B . ADA	P
CA1802A8	Č	CA1182A-B.ADA	P	CA3002A0	С
CA1002A9	Č	CA1182A8	С	CA3002A1	C
CA1003A-AB.ADA	P	CA1182A1	С	CA3002A2M	С
CA16038-AB. ADA	w	CA1102A2M	С	CA3002A3	С
CA1004A-AB.ADA	P	CA1105A-8.ADA	P	CA3006C-B. ADA	₽
CA1005A-AB.ADA	P	CA1105A0	C	CA3006C0	C
CA1005A-AB.ADA	٩	CA1105A1M	С	CA3006C1	С
CA1607A-AB.ADA	P	CA11858-8.ADA	P	CA3006C2	С
CA1007A0	Ċ	CA1185B0	C	CA3006C3	С
CA1807A1M	Č	CA1105B1	С	CA3006C4	С
CA166BA-AB.ADA	P	CA1105B2	C	CA3006C5M	C
CA1008A0	c	CA1105B3M	C	CA3006D-B.ADA	P
CA1008A1M	Č	CA1185B4	C	CA3006D0	C
CA1009A-AB. ADA	P	CA1105B5	C	CA3006D1	С
CA1809A0	С	CA1187A.ADA	P	CA3006D2	C
CA1009A1	c	CA1197A0	C	CA3006D3M	С
CA1009A2	С	CA1187A1M	C	CA3006E-B.ADA	P
CA1889A3	С	CA1187A2	C	CA3006E0	С
CA1009A4M	С	CA1188A-B. ADA	w	CA3006E1	С
CA1811A-8.ADA	w	CA1198B-B . ADA	W	CA3006E2	С
CA1011A0	w	CA2001H-B. ADA	P	CA3006E3	С
CA1011A1	w	CA2001H0	С	CA3006E4	С
CA1011A2	w	CA2001H1	C	CA3006E5	С
CA1011A3	W	CA2601H2	С	CA3006E6M	C
CA1011A4	₩	CA2001H3M	C	CA5002A-B. ADA	P
CA1811A5	w	CA2002A-8.ADA	P	CA5002B-B . ADA	P
CA1811A6M	w	CA2002A0M	С	CA5002B0	С
CA1012A-B.DEP	P	CA2002A1	С	CA5002B1	C
CA1012A8	C	CA2002A2	С	CA5002B2	С
CA1012A1	С	CA2003A-AB.ADA	P	CA5002B3	C
CA1812A2	С	CA2003A0M	С	CA500284	C
CA1012A3	C	CA2883A1	С	CA5002B5	C
CA1812A4M	C	CA2004A-AB.ADA	P	CA5002B6	C
CA1612B-B.ADA	P	CA2004A0M	C	CA5602B7M	C
CA1612B0	С	CA2884A1	C	CA5003A-B.ADA	P
CA101282	C	CA2004A2	C	CAS663A6	C
CA1012B4M	С	CA2884A3	C	CA5003A1	C
CA1013A-B.ADA	₽	CA2804A4	C	CA5003A2	C
CA1813A8	C	CA2007A-AB.ADA	P	CA5003A3	C
CA1913A1	C	CA2007A0M	C	CA5003A4	C
CA1013A2	C	CA2007A1	C	CA5003A5	C
CA1013A3	C	CA2007A2	C	CASOBJA6M	P
CA1013A4	C	CA2007A3	С	CA56638-8 . ADA	_

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CAS60366 CAS60361 CAS60362 CAS60383 CAS60384 CAS60385M CAS604A-B.ADA CAS604B-B.ADA LA3604A0	CCCCCPPA	LA3004A2 LA3004A3 LA3004A4 LA3004A5 LA3004A6 LA3004B6 LA3004B1 LA3004B1 LA3004B3 LA3004B4	C C C C M C C C C	LA3004B5 LA3004B6M LA5001AB-B.ADA (A5001A1 LA5001A2 LA5001A3 LA5001A4 LA5001A5 LA5001A6	

		CB1603A-AB . ADA	P	CB4003A-AB . ADA	ŧ p	
BB2001A-AB . ADA	P		•	CB4004A-B.ADA	* P	
BB2002A-AB . ADA	P	CB1884A-AB.ADA	₽		7 P	
	P	CR2004A-B.ADA	P	CB4005A-AB . ADA	•	
BB2003A-AB.ADA	•	CB2665A-8.ADA	₽	CB4006A-B.ADA	₽	
8820038-AB . ADA	P		•	CB4008A-AB.ADA	₽	
BB2003C-AB . ADA	Þ	CB2006A-AB.ADA	₽		P	
	P	CB2007A-AB.ADA	P	C84009A-AB. ADA	•	
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883662A-AB . ADA	P		P	CB50018-8.ADA	P	
BB3865A-AB . ADA	P	CB3004A~AB . ADA	•	CB36616 STILL		
	P	CB4001A-AB.ADA	P			
CB1001A-B.ADA	, P3	CRABBZA-AB . ADA	P			

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BC1882A-B. ADA	N/A	BC3002B-AB . ADA	P	BC3301A-AB.ADA	P
BC1888A-AB.ADA	P	BC3002C-AB . ADA	P	BC3301B-AB ADA	P
BC10088-AB . ADA	P	BC30020-AB . ADA	P	BC3302A-AB . ADA	P
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BC1202C-AB. ADA	P	BC3204C-B . ADA	w	BC3501H-AB . ADA	₽
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BC20018-AB . ADA	P	8C3285F-8.ADA	W	BC3502L-AB . ADA	P
BC2801C~AB.ADA	P	BC3220B-B.ADA	P	BC3502M-AB . ADA	P
BC28ABA~B.ADA	P	BC32ABA-B.ADA		ロレンジャとボーハロ・ハビハ	

BC3502N-AB . ADA	P	CC3007A-AB . ADA	P	CC3407D-AB . ADA	P
	P	CC3011A-B.ADA	P	CC3407E-AB . ADA	P
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CC2002A-AB. ADA	P	CC3497B-AB . ADA	P	CC3602A-AB.ADA	P
CC3004A-B.ADA	P	CC3407C-AB.ADA	P		

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AE2181A-B.ADA	P	CE2111D-B.ADA	P	CESSO IA-D. AUA	P
AE21818-8.ADA	₽	CE2201A-B. ADA	P	CE33010-0.AUA	P
AE2101C-B.DEP	P	CE2201B-B.ADA	P	CE3301C-B.ADA	P
AE2101D-B. ADA	P	CE2201C-B.ADA	P	CE3302A-B.ADA	₽
AE3101A-B.ADA	P	CE2201D-B.DEP	P	CE3303A-B.ADA	P
AE3702A-B.ADA	P	CE2201E-B.DEP	P	CE3305A-B.ADA	₽
AE3709A-B.ADA	P	CE2201F-B.ADA	P	CE3402A-B.ADA	P
9E2101E-B. ADA	P	CE2202A-B.ADA	P	CE3462B-B.ADA	₽
BE2112A-B.ADA	P	CE2204A-B.ADA	P	CE3402C-B. ADA	P
BE21128-8.ADA	P	CE2204B-B. ADA	P	CE3402D-B. ADA	P
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BE3803A-B.ADA	Þ	CE2408A-B.ADA	P	CE3405C-B.ADA	₽
BE3902A-B.ADA	P	CE2409A-B.ADA	₽	CE3405D-B.ADA	P
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CE2102B-B.ADA	Þ	CE3002C-B.TST	P	CE3406C-B.ADA	₽
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CE21020-8.40A	P	CE3882F-B.ADA	P	CE3407A-B.ADA	P
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CE2102F-B.ADA	P	CE3102B-B.TST	P	CE3407C-B.ADA	P
CE2102F-B.ADA	P	CE3103A-B.ADA	Þ	CE3498A-B.ADA	P
CE2103A-B.TST	P	CE3104A-B.ADA	P	CE3408B-B.ADA	P
CE21038-8.TST	P	CE3107A-B.TST	Þ	CE3408C-B.ADA	P
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	P	CE3109A-B.ADA	Þ	CE3489C-B.ADA	P
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CE2107A-B.ADA	P	CE3111B-B.ADA	P	CE3409F-B.ADA	Þ
CE21078-B.ADA	P	CE3111C-B.ADA	P	CE3418A-B.ADA	P
CE2187C-B. ADA CE2187D-B. ADA	P	CE3111D-B.ADA	P	CE3410B-B.ADA	Þ
	W	CE3111E-B.ADA	P	CE3410C-B.ADA	P
CE2107E-B.ADA	P	CE3112A-B.ADA	P	CE3410D-B.ADA	P
CE2108A-B. ADA	P	CE3112B-B.ADA	P	CE3410E-B.ADA	P
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CE2108C-B.ADA	P	CE31148-B.ADA	P	CE3411A-B.ADA	P
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CE2110A-B.ADA	P	CE3282A-B. ADA	P	CE3412C-B.ADA	P
CE2110B-B.ADA		CE3283A-B.ADA	P	CE3413A-B.ADA	P
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CE21118-8.ADA	P	CE3208A~B.ADA	P	CE3601A-B.ADA	P
CE2111C-B.ADA	~	CL32BOATD.ADA	-	92000 IN 0.100	-

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CE3804M-B.ADA

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CE3704D-B.ADA

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CE3908A-B.ADA

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